DEPARTMENT OF THE INTERIOR UNITED STATES GEOLOGICAL SURVEY

GEORGE OTIS SMITH, DIRECTOR

BULLETIN 437

RESULTS OF SPIRIT LEVELING

IN

MAINE, NEW HAMPSHIRE, AND VERMONT

1896 TO 1909, INCLUSIVE

R. B. MARSHALL, CHIEF GEOGRAPHER

WORK DONE IN COOPERATION WITH THE STATE OF MAINE DURING 1899 TO 1909, INCLUSIVE



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RESULTS OF SPIRIT LEVELING IN MAINE, NEW HAMP-SHIRE, AND VERMONT, 1896 TO 1909, INCLUSIVE.

R. B. Marshall, Chief Geographer.

INTRODUCTION.

Scope of the work.—The results herein given are based on a common mean sea-level datum. The main control is the adjustment made in 1903 by the Coast and Geodetic Survey of a great net of precise levels which combines work of various organizations and covers the eastern half of the United States. The precise-level lines which lie wholly or partly in these States are (1) from Portland northeast along the Maine Central Railroad to Brunswick, Me.; (2) from Portland along the Maine Central Railroad to Cornish, thence west along highways to the New Hampshire-Maine state line, thence westward via Lake Winnepesaukee across New Hampshire to South Newbury, Vt., thence down the Connecticut River Valley to White River Junction, Vt., where a check was obtained on a bench mark established by primary leveling extended from a tidal bench mark near Portsmouth, N. H.

All results of spirit leveling in these States previously published by the United States Geological Survey and all later work are included in this report, readjusted and rearranged by quadrangles. Descriptions and elevations of bench marks are given for 15 out of 16 counties in Maine, for 9 out of 10 counties in New Hampshire, and for 7 out of 14 counties in Vermont.

The results of leveling by the water resources branch in Maine and New Hampshire are also included.

Personnel.—The field work during 1898 to 1906, inclusive, was done under the direction of H. M. Wilson, geographer, and that during 1907 to 1909, inclusive, was done under Frank Sutton, geographer. The work since January, 1908, was done under the general direction of R. B. Marshall, chief geographer. Credit is given in the heading of each list to the different levelmen.

The leveling in Maine was done in cooperation with the State during the years 1899 to 1909, inclusive. The leveling in New Hampshire and Vermont was not done in cooperation with the States.

The office work of computation and compilation of results was done by D. H. Baldwin, topographer, under the immediate supervision of S. S. Gannett, geographer, and since 1907 under the general direction of E. M. Douglas, geographer.

Classification.—The lists are separated into two classes, precise and primary, distinguishing the degree of refinement in the method of leveling employed; and each list is subdivided so that the results for each quadrangle are combined. The elevations under precise leveling were determined by lines run in both forward and backward directions, a high-grade level and rated rods being used and special precautions being taken in observation and reduction to correct error and make the results continuously good; elevations under primary leveling were determined mostly by single lines run with the Y level, precautions being taken against only the principal sources of error, and depending upon the closure of circuits for a check. The allowable limit of error observed on the precise lines is represented in feet by the formula $0.017\sqrt{D}$, in which D is the distance between bench marks in miles. The limit in feet on primary work is $0.05\sqrt{D}$, in which D is the length of circuit in miles.

Bench marks.—The bench marks, the locations of which are given in the following lists, are of three general forms: First, a circular bronze or aluminum tablet 3½ inches in diameter and one-fourth inch thick, appropriately lettered, having a 3-inch stem cemented in a drill hole, generally in the vertical wall of a public building, a bridge abutment, or other substantial masonry structure. The second form, employed where masonry or rock is not accessible, consists of a hollow wroughtiron post 3½ inches in outer diameter and 4 feet in length, split at the bottom and expanded to 10 inches at base, so as to prevent both the easy subsidence of the post and the malicious pulling of it out of the These posts are generally sunk 3 feet in the ground; the iron is heavily coated with asphalt, and over the top of the post is riveted a bronze tablet similar to that described above. The third form consists of a copper bolt 1 inch in diameter and 4 inches long, which is split at one end and expanded in a drill hole in masonry by driving on a brass wedge. But few bench marks of the third class have been used in these States, and their use has now been discontinued.

The numbers stamped on the bench marks represent the elevations to the nearest foot above mean sea level, as determined by unadjusted levels in the field. The notes have since been subjected to changes resulting from the adjustments necessary to close circuits and to reduce to mean sea level through connection with or readjustment of the precise-level net of the United States. Some of the elevations as finally accepted and printed herein therefore differ from those submitted as bench-mark numbers by 1 or 2 feet. This method of numbering bench marks, rather than any attempt at serial numbering, has

been adopted where many levelmen are working in a given area at the same time as less liable to lead to confusion in identification of bench marks and because such bench-mark number also affords an approximate statement of the elevation. It is assumed that engineers and others finding these bench marks so stamped in the field will communicate with the Director of the United States Geological Survey in order to obtain the accepted elevation to hundredths or thousandths of a foot. Bench marks established under cooperation are stamped with the state name.

For a complete list of standard bench marks in any quadrangle refer to both precise and primary lists. Descriptions of bench marks in adjoining States, but within the border quadrangles herein listed, are not given in this bulletin.

Any person finding bench marks in the following lists mutilated or destroyed will confer a favor by notifying the Director, United States Geological Survey, Washington, D. C.

MAINE.

PRECISE LEVELING.

Bath, Freeport, Gray, Kezar Falls, Portland, and Sebago quadrangles.

CUMBERLAND AND OXFORD COUNTIES.

The elevations in the following list are the result of two lines of precise levels run in 1906: One line from Portland, northeast along the Maine Central Railroad, to Brunswick (where it joins the doublerodded primary line of the water-resources branch from Augusta), and thence up the Androscoggin River; the other line from Portland, northwest along the Maine Central Railroad, to Cornish, and thence west along highways through the southern part of Kezar Falls quadrangle to the New Hamsphire state line. Both lines are based on a bench mark established by the United States Engineer Corps in 1901 from previous ones set by the Coast and Geodetic Survey, now destroyed, the heights of which were determined from tidal records made in 1852-53 and in 1864-1866. The bench mark is the bottom of a 1-inch drill hole one-eighth inch deep on upper surface of water table between columns at right of the Commercial street entrance to the custom-house building. Its elevation is 14.069 feet above mean sea level and the mean range of tide at Portland as corrected in 1896 is 8.824 feet. The methods, instrument, and limit of error were practically those now used by the Coast and Geodetic Survey, except that the rods were 3.5 yards long, graduated to yards and hundredths with incased thermometers.

The lines are leveled independently in both forward and backward directions, broken by temporary bench marks into sections 0.5 mile to 1.25 miles long. On all sections upon which the backward and

forward measures differed in feet more than 0.017 times the square root of the distance between bench marks in miles, the line was rerun until a pair in opposite directions came within limits. All corrections necessary to obtain accurate results were made.

The leveling was done by N. A. Campbell, chief of the party.

PORTLAND QUADRANGLE.

PORTLAND, NORTHEAST ALONG MAINE CENTRAL RAILROAD, TO CUMBERLAND JUNCTION.	
Portland, on step at right side of main entrance to city hall; bronze tablet stamped "67"	Feet. 66, 582
Portland, on upper surface of water table between columns at right of Commercial street entrance to custom-house, bottom of ½-inch drill	
hole one-eighth inch deep (above low water, 18.481)	14.069
over railroad, east side of track; chiseled square	12. 210
stamped "26"	26. 070
Woodfords, in front of station; top of rail	65. 7
Deering Junction, in front of station; top of rail	103. 8
stamped "110"	109. 530
tablet stamped "48"	47.694
PORTLAND, ALONG MAINE CENTRAL BAILROAD, TO NEWHALL.	
Portland, en right side of main entrance to Union Station (porte-cochère),	
in curb; aluminum tablet stamped "26"	26. 070
(error in stamping)	68. 599
South Windham, 110 feet east of first road east of station parallel with rail- road, south of T road, 3 feet higher than road, in rock ledge; aluminum	00.000
tablet stamped "154"	153. 906
Newhall, in front of station; top of rail	168. 092
GRAY QUADRANGLE.	
AT CUMBERLAND JUNCTION.	
Cumberland Junction, 250 feet south of station, southeast side of track, top of culvert; aluminum tablet stamped "58"	57. 984 59. 0
FREEPORT QUADRANGLE.	
CUMBERLAND JUNCTION, NORTHEAST ALONG MAINE CENTRAL RAILROAD, TO BRUNSWICK.	
Cumberland Junction, 3.6 miles northeast of, bridge over Royal River, northwest side of track, on top of south abutment; aluminum tablet stamped "92"	91. 794
Yarmouth Junction, in front of station; top of rail	89. 8
bridge, southeast side of track, on ledge; chiseled square	73. 212

Yarmouth Junction, 4 miles northeast of, southwest end of southeast abut-	Feet.
ment of overhead highway bridge; aluminum tablet stamped "90" Freeport, in front of station; top of rail	89. 950 129. 6
Freeport, 0.2 mile northeast of, northwest side of track just south of high-	120.0
way, in rock ledge; aluminum tablet stamped "133"	132.504
Freeport, 4.1 miles northeast of, southeast side of track, in rock ledge; alu-	
minum tablet stamped "136"	135.529
BATH QUADRANGLE.	
AT BRUNSWICK.	
Brunswick, west side of Union Station, about 16 feet from southwest cor-	
ner of grating over basement windows, in curb 6 inches from wall; alumi-	
num tablet stamped "67"	66. 519
Brunswick, left of main entrance to city hall, in wall; aluminum tablet	
stamped "70"	69. 589
Brunswick, south side of Union Station, in doorstep leading to basement;	
bronze tablet stamped "67"	67.094
SEBAGO QUADRANGLE.	•
SEBAGO, ALONG MAINE CENTRAL RAILROAD, TO POINT 2.1 MILES NORTHWEST OF MATTOCKS.	
Sebago, in front of station; top of rail	275. 453
Sebago Lake, 0.3 mile northwest of, right side of track, in rock ledge; alumi-	2.0. 100
num tablet stamped "287"	287. 555
Richville, in front of station; top of rail	313.740
Richville, 0.6 mile northwest of, right side of track, in rock; aluminum	
tablet stamped "293"	293. 283
Steep Falls, in front of station; top of rail	303. 432
Steep Falls, 0.2 mile northwest of, right side of track, in rock; aluminum tablet	300. 370
Mattocks, in front of station; top of rail	283. 331
Mattocks, 2.1 miles northwest of, right side of track, in rock; aluminum	200, 001
tablet stamped "320"	320.050
KEZAR FALLS QUADRANGLE.	
CORNISH, WEST ALONG HIGHWAYS TO 1.2 MILES WEST OF PORTER.	
Cornish, at forks of Maine and Cumberland streets, on right side going east,	0.40, 0.40
in side yard of dwelling, in rock; aluminum tablet stamped "347" Kezar Falls, northeast of bridge, in Hollem's lot, 60 feet from road, 12 feet	346. 943
east of west fence, in rock; aluminum tablet stamped "381"	381. 345
Porter, 1.2 miles west of, north side of road, in rock; aluminum tablet	301, 010
stamped "399"	398. 873
PRIMARY LEVELING.	

PRIMARY LEVELING.

Anson, Augusta, Bingham, Brassua Lake, Moosehead Lake, Norridgewock, Skowhegan, The Forks, Vassalboro, and Waterville quadrangles.

KENNEBEC, SOMERSET, AND PISCATAQUIS COUNTIES.

The elevations in the following list are based on tidal records of the Coast and Geodetic Survey at Portland. The work was previously based on Augusta datum from tidal records of the Coast and Geodetic Survey at Hallowell; but the results of a doublerodded line run in 1905 by the water-resources branch of the United States Geological Survey from Augusta to Brunswick, checking upon the Coast and Geodetic Survey gage bench marks at Abagadassett Point and Pleasant Point with a connection also at Moosehead from Penobscot River levels, showed considerable error. A line of precise levels was therefore run from Portland (where a more reliable sea-level value could be obtained) to Brunswick, from which was derived a correction of 2.651 feet to be added to the original unpublished values of the water-resources branch and 2.593 to be added to the original unpublished elevations of the bench marks on Augusta datum from Augusta to Moosehead. The closures upon Coast and Geodetic Survey gage bench marks by the water-resources branch line corrected to Portland datum are as follows: At Point Pleasant, +1.11 feet; at Abagadassett Point, +0.41 feet; at Hallowell bench mark 2, +2.651 feet; at Augusta, +4.608 feet.

A small discrepancy with levels brought by the topographic branch from Bangor up the Penobscot River, in 1904, to Norcross and thence by wye and water levels in the four succeeding years by the water-resources branch to Moosehead, has been adjusted into leveling of the water-resources branch.

The leveling was done in 1903 and 1904 by F. J. McMaugh.

AUGUSTA QUADRANGLE.

HALLOWELL, NORTH ALONG MAINE CENTRAL RAILROAD, TO AUGUSTA.

Hallowell, on south face of stone snubbing post of Granite Company's wharf; horizontal chisel mark a (Coast and Geodetic Survey bench mark No. 1)	Feet. 13. 804
level)	27.091
Augusta, at northwest corner of west wing of state house; aluminum tablet	
stamped (reestablished in 1909 by the water-resources branch)	152. 950
Augusta, in the upper and outer stone on top of the small ornamental tower, on the southwest corner of river wall around the arsenal; drilled	
hole b	21. 168
VASSALBORO QUADRANGLE.	
AUGUSTA, NORTH ALONG MAINE CENTRAL RAILROAD, TO VASSALBORO.	
Augusta, 4 miles northeast of, 865 feet north of milestone "66 and 185," in south granite abutment of railroad culvert; aluminum tablet stamped	
"34 AUGUSTA"	37.046
Vassalboro, 4.5 miles south of, at sawmill, on top of stone culvert; chisel	F1 F0
mark	51. 53

a This bench mark is assumed to have settled 0.344 foot, as found by checked connection with bench mark No. 2. Discarded elevation by Coast and Geodetic Survey equals 11.50 above mean water level. b Elevation by the water-resources branch, United States Geological Survey, exact point of Coast and Geodetic Survey bench mark impossible to determine; discarded elevation by Coast and Geodetic Survey equals 16.56 above mean water.

Vassalboro, stone culvert near milestone "73 and 183," Portland and Vanceboro, in southeast corner; aluminum tablet stamped "39 AUGUSTA"	Feet. 42.027 57.4
WATERVILLE QUADRANGLE.	
VASSALBORO, NORTH ALONG MAINE CENTRAL RAILROAD, TO GOODWILL.	
Winslow, 0.5 mile south of, 5.5 miles north of Vassalboro, in east abutment of new bridge over Kennebec River; aluminum tablet stamped "53 AUGUSTA"	55. 584
Winslow, in front of station; top of rail	54. 8
Waterville, east bank of river, 30 feet south of dam, 140 feet north of railroad bridge, in ledge marked "Top of flash boards;" copper bolt	78. 157 52. 16
Shawmut, in west wall of engine house of the Lawrence Newhall plant; aluminum tablet stamped "113 AUGUSTA"	115. 226
Shawmut, in front of station; top rail	126. 0
Goodwill farm, in front of station; top of rail	119.6 132.6
miles to Portland;" aluminum tablet stamped "126 AUGUSTA"	128. 580
SKOWHEGAN QUADRANGLE.	
AT SKOWHEGAN.	
Skowhegan, in front of station; top of rail	172. 8
stamped "172 AUGUSTA." (Reported as having the end defaced) Skowhegan, 0.3 mile south of station, on coping stone at west end of south abutment of railroad bridge; aluminum tablet stamped "176 AUGUSTA"	174. 484 178. 897
NORRIDGEWOCK QUADRANGLE.	
SKOWHEGAN, SOUTHWEST ALONG SKOWHEGAN AND NORRIDGEWOCK ELECTRIC RAILROAD, TO NORRIDGEWOCK.	•
Norridgewock, in northeast corner of hotel; aluminum tablet stamped "199	
AUGUSTA" Norridgewock, in front of station; top of rail	201. 854 202. 3
ANSON QUADRANGLE.	
NORRIDGEWOCK, NORTH ALONG SOMERSET RAILWAY, TO ANSON.	
Madison, in center of town, in underpinning of Odd Fellows block; aluminum tablet stamped "294 AUGUSTA"	297. 035 263. 4
MADISON, EAST TO MADISON CENTER; THENCE NORTH VIA NORTH MADISON, TO SOLON.	
Madison Center, at entrance to Lakewood Park (property of Somerset Traction Company), at forks of road, in granite foundation of farmhouse; bronze tablet stamped "363 AUGUSTA"	365. 627
of small hill, west side of road, in flint ledge; bronze tablet stamped "622 AUGUSTA"	624. 508
Solon, New Caratunk Hotel (J. H. Grey, owner), in granite underpinning of west corner; bronze tablet stamped "403 AUGUSTA"	405. 416

SOLON, WEST ALONG PUBLIC ROADS, TO EMBDEN CENTER.

Embden Center, at three corners of road, in front of old house, east side of road; bronze tablet stamped "474 AUGUSTA"	Feet. 476. 681
EMBDEN CENTER, SOUTH ALONG PUBLIC ROAD VIA NORTH ANSON, TO ANSON.	
North Anson, opposite road forks, in east face of southeast corner of granite underpinning of building owned by F. W. Bunker; aluminum tablet stamped "293 AUGUSTA"	295. 658 315. 4
BINGHAM QUADRANGLE.	
SOLON, NORTH ALONG SOMERSET RAILWAY, TO BINGHAM.	
Bingham, 3 miles south of, 7 miles north of Solon, right side of road, in bowlder; bronze tablet stamped "376 AUGUSTA" Bingham, south end of east abutment of bridge over Austin Stream, bronze tablet stamped "367 AUGUSTA" Bingham, in front of station; top of rail.	378. 216 369. 334 351. 8
BINGHAM, NORTH ALONG HIGHWAY, TO CARATUNK.	
Bingham, 6.5 miles north of, in southeast corner of George Gordon's house; bronze tablet stamped "434 AUGUSTA"	436. 434 453. 669 590. 384
BINGHAM, NORTHEAST ALONG SOMERSET RAILWAY, TO AUSTIN POND AND MOXIE POND.	
Bingham, 5 miles northeast of, in rock wall at Chamberlain Hill; aluminum tablet stamped "1324 AUGUSTA" (bench mark on old line was unrecovered and elevation may be 3 feet too great)	1, 003. 500
THE FORKS QUADRANGLE.	
CARRITUNK, NORTH ALONG ROAD VIA THE FORKS, TO INDIAN POND.	
The Forks, 2.5 miles south of, 5.2 miles north of Carritunk, 2,000 feet north of Ed. Morris's house, east side of road, in ledge of rocks; aluminum tablet stamped "576 AUGUSTA"	579. 066 577. 33 614. 090 760. 062 936. 013
	300. 010
THE FORKS, EAST TO LOWER (NORTH) END OF MOXIE POND; THENCE BY WATER LEVELS TO UPPER END.	
The Forks, 3 miles east of, 320 feet east of Ed. Croto's house, south side of road, in large bowlder; aluminum tablet stamped "901 AUGUSTA"	903. 261

. MAINE.	13	
Moxie Pond, north end of, at upper dam, in ledge at east side of Moxie Stream, 90 feet northeast of sluice gate; aluminum tablet stamped "959 AUGUSTA"	Feet. 961, 259	
Moxie Pond, on west bank of Baker Stream, 50 feet east of railroad location, in ledge; aluminum tablet stamped "963 AUGUSTA"	966. 060	
BRASSUA LAKE QUADRANGLE.		
INDIAN LAKE, NORTHEAST ALONG NORTH SIDE OF INDIAN POND, TO MOOSEHEAD.		
Marrs Camp, north end of Indian Pond, 6.1 miles north of dam, at side of road, in rock ledge; aluminum tablet stamped "946 AUGUSTA"	948. 300	
MOOSEHEAD LAKE QUADRANGLE.		
AT MOOSEHEAD.		
Moosehead, southeast corner of east abutment of Canadian Pacific Railway bridge over east outlet of Moosehead Lake; aluminum tablet a stamped "1026 AUGUSTA"	, 022. 0	
Buckfield, Lewiston, Livermore, Norway, and Poland quadrangles.	•	
ANDROSCOGGIN, CUMBERLAND, FRANKLIN, KENNEBEC, OXFORD, AND SAC COUNTIES.		
The elevations in the following list are based on bench marks of the double-rodded line of the Androscoggin River survey (water-resources branch United States Geological Survey), corrected in accord with the precise-level line of the topographic branch from Portland to Brunswick; and such of those bench marks as come in these quadrangles are included in the list. The leveling was done in 1905 and 1906 by F. J. McMaugh.		
•	and to e quad-	
rangles are included in the list.	and to e quad-	
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rangles are included in the list. The leveling was done in 1905 and 1906 by F. J. McMaugh. Lewiston Quadrangle. Lisbon falls, northwest along maine central railroad, to lewiston; thence north to keens mills. Lisbon Falls, in ledge about "10½ miles to Lewiston," side of river opposite lower end of Frosts Park; aluminum tablet (permanent bench mark No. 7) Dingley farm, in large bowlder near north line, east of road about 300 feet; aluminum tablet (permanent bench mark No. 9). Babbett & Googin dam, in high point of ledge below (this ledge is in bed of river and is an island during high water); aluminum tablet (permanent bench mark No. 10). Lewiston, northeast along maine central railroad, to leeds junction; thence south along maine central railroad to lisbon.	e quad- e quad-	
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a Elevation as brought by careful wye and water levels from Bangor, 1,028.223—a closure of 0.069, which can be thrown to water levels and the Penobscot and these corrected Kennebec levels from Portland can be considered as adjusted.

• Bench marks by water-resources branch.

Lewiston, in south face of southwest corner of post-office building; aluminum tablet stamped "AUGUSTA 196" Lewiston, opposite baggage room at upper station; north rail Lewiston, 2.8 miles north of, west side of track, in milestone "V 215;"	Feet. 196, 000 205, 1
aluminum tablet stamped "AUGUSTA 228"	227. 852
stamped "AUGUSTA 275"	275.312
Greene, in front of station; top of rail. Greene, 0.25 mile north of, in ledge; aluminum tablet stamped "293 AUGUSTA"	302. 0 292. 611
Leeds, in front of station; top of west rail	271. 2
Leeds, 0.25 mile south of, in milestone "V 207;" aluminum tablet stamped "AUGUSTA 281".	281. 194
Wales, in front of station, at crossing; top of rail	255. 4
Leeds Junction, 3 miles south of, in east face of south wall of stone culvert; aluminum tablet stamped "AUGUSTA 254"	253. 925
Sabattus, 330 feet east of station, north of track, in large bowlder; aluminum	
tablet stamped "AUGUSTA 266"	265.797
Sabattus, in front of station; top of rail	262. 3
Webster woolen mills, Sabattus River; top of dam	215.8
Crowleys Junction, south end of west abutment	188.324
Crowleys Junction, north end, east abutment of railroad bridge; aluminum	
tablet stamped "189 AUGUSTA"	189. 108
Crowleys, in front of station; top of east rail	191. 2
at Moody Brook	186. 683
Lisbon, in front of station; top of east rail	199.8
Lisbon, in front of office building of Farwell mills, 9 feet from northwest	
corner, 160 feet from junction of Main and Farwell streets; aluminum tablet stamped "185 AUGUSTA"	184. 801
LEWISTON, SOUTHWEST ALONG THE GRAND TRUNK RAILWAY AND THE MAINE CENTRAL RAILROAD, TO RUMFORD JUNCTION.	
Auburn, main track of Grand Trunk Railway; top of south rail	147. 5
boro 221 miles;" aluminum tablet stamped "205 AUGUSTA"	205. 210
POLAND QUADRANGLE.	
RUMFORD JUNCTION, WEST TO POLAND; THENCE NORTH TO BUCKFIELD.	
Lewiston Junction, 1 mile north of, north end of east abutment of Maine	•
Central Railroad bridge; aluminum tablet stamped "280 AUGUSTA"	280. 381
Elmwood Farm station; top of east rail	300. 7
Poland Spring station; top of east rail.	322. 7
Poland, in front of station; top of rail	
Poland, 1.7 miles north of station, 475 feet south of milepost, in west end of	313. 0
south wall of culvert; aluminum tablet stamped "284 AUGUSTA"	283. 725
Mechanic Falls, in front of Maine Central Railroad station; top of west rail. Mechanic Falls, 1 mile north of, 420 feet north of railroad crossing, west end	303. 4
of south abutment of Maine Central Railroad bridge over Bog Brook;	
aluminum tablet stamped "267 AUGUSTA"	067 007
West Minot, main track in front of station; top of west rail	267. 237
West Minot, 250 feet north of station, 50 feet south of highway bridge, 80	347. 1
feet west of track, in rock ledge; aluminum tablet stamped "334 AU-	
GUSTA"	334. 356
•	γυ τι υ ψψ

East Hebron, 875 feet north of railroad crossing at station, 75 feet west of railroad track, in large bowlder; aluminum tablet stamped "348"	Feet. 347. 889
poland, southwest to west poland; thence north via water leveling to oxford; thence north $3.6~\mathrm{miles}.$	
Poland, 2.2 miles from, 18 feet south of road and 750 feet east of road on east side of Tripp Pond; aluminum tablet stamped "343"	343. 073 305. 5
Russell; aluminum tablet stamped "333"	332. 977 324. 7
stamped "348"	348. 340
"363"	363. 348
SOUTH PARIS, EAST 5 MILES ALONG ROAD TO BUCKFIELD.	
South Paris, 2.1 miles east of, west bank of Stony Brook, 25 feet north of bridge and 85 feet northeast of road forks, in ledge; aluminum tablet	
stamped "479"	478. 783
of four corners, in ledge; aluminum tablet stamped "1015"	1, 014. 906
"576"	576. 129
NORWAY QUADRANGLE.	
point 3.6 miles north of oxford, northwest along grand trunk railway, to south paris.	
South Paris, 1.4 miles south of, south end of east wall of granite arch culvert; aluminum tablet stamped "376"	376. 407 392. 2
BUCKFIELD QUADRANGLE.	
POINT 5 MILES EAST OF SOUTH PARIS, NORTHEAST TO BUCKFIELD; THENCE EAST TO TURNER.	
Buckfield, 2.6 miles west of, north side of road in angle of fence 330 feet west of house belonging to Greene Turner, in large bowlder; aluminum tablet stamped "826"	826. 376
OBuckfield, in second course from top, at east end of south abutment of rail-	
road bridge over Twentymile River; aluminum tablet stamped "364" Turner, top of coping at north end of dam, 2 feet south of face of retaining wall and 2.5 feet west of downstream face of dam; aluminum tablet	364. 259
stamped "303"	302. 903
LIVERMORE QUADRANGLE.	
TURNER, NORTHEAST TO KEENS MILLS.	
Keenes Mills Cemetery, 0.25 mile north of, in orchard of Edward Pratt, 500 feet north of house, and 150 feet east of highway; aluminum tablet stamped "283"	283. 111
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Bethel, Fryeburg, Kezar Falls, and Rumford quadrangles. CUMBERLAND, OXFORD, AND YORK COUNTIES.

The following elevations were determined by primary leveling extended from Cornish and Porter, on the precise-level line from Portland, and are based upon mean sea level. The single line, Lynchville to Bethel, closes 2.319 feet high on Androscoggin levels of the water-resources branch, corrected for a 1-foot error found at Turner Bridge.

The leveling was done as follows: In all four quadrangles by C. K. Alexander in 1908; in Fryeburg and Kezar Falls quadrangles by E. B. Hillegass in 1909.

KEZAR FALLS QUADRANGLĖ.

NEAR PORTER, NORTH ALONG HIGHWAYS, TO FRYEBURG.

Porter, 1.2 miles west of, north side of road, in rock; aluminum tablet stamped "399"	Feet. 398. 873
Porter, 3.3 miles northwest of, at fork of roads, in large rock, southwest corner of forks; aluminum tablet stamped "496"	495. 815
Rands School, 6.5 miles northwest of Porter, west of road, opposite schoolhouse, in rock ledge; aluminum tablet stamped "875"	875. 374
Brownfield station, 3.8 miles southwest of, in large rock north of road; aluminum tablet stamped "515"	514. 969
Brownfield, 3 miles west of station, at southeast corner of road crossing, on granite post; paint mark "481.6"	481. 69
tablet stamped "493"	493. 458
CORNISH, NORTHWEST ALONG MAINE CENTRAL RAILROAD, TO FRYEBURG (MEAN OF TWO RUNNINGS).	
Cornish station, on Maine Central Railroad; spike in east end of crossing planks, marked "300"	299. 98
crossing planks, marked "346". Bridgton Junction, 1 mile southeast of, at northeast side of railroad, in top	345. 52
face of culvert stone; aluminum tablet stamped "356"	355. 538
ment of small bridge; aluminum tablet stamped "398"	396. 596
face of large embedded rock; aluminum tablet stamped "400" East Brownfield (Brownfield station), 3 miles northwest of, at crossing of brook, in top face of south side of east abutment of bridge; aluminum	398. 935 🔾
tablet stamped "386"	384. 820
FRYEBURG QUADRANGLE.	
fryeburg, northeast along highways, to west bridgion; thence northwest to lovell.	
Fryeburg, at corner of Main and Portland streets, in east face of monument; aluminum tablet stamped "429"	429. 245
Fryeburg, 2.7 miles northeast of, south of road in large rock; aluminum tablet stamped "478"	478. 300

East Fryeburg, at northeast corner of road crossing, in southwest corner of Mount Pleasant Band hall; aluminum tablet stamped "486"	Feet. 486. 606
num tablet stamped "516"	515. 994
Lovell, 2.9 miles southeast of, in southeast corner of Black Mountain school-house; aluminum tablet stamped "549"	549. 226
Lovell, 0.2 mile north of road forks, in front of C. K. Chapman's residence, in rock of stone wall; aluminum tablet stamped "439"	439. 425
LOVELL, NORTHEAST AND NORTH ALONG HIGHWAYS, TO LYNCHVILLE.	
Sweden Corner, at northwest corner of road crossing, in southeast corner of stone wall of O. P. Saunders's residence; aluminum tablet stamped "692"	692. 067
East Sweden, in southeast corner of stone wall of schoolhouse; aluminum o	
tablet stamped "568"	568. 263
schoolhouse; aluminum tablet stamped "963"	963. 723
residence, in large rock; aluminum tablet stamped "797"	797. 533
North Waterford, in stone wall at northwest corner of Congregational Church; aluminum tablet stamped "650"	650. 884
Lynchville, on foundation stone on north side at east end of bridge over Crooked River; paint mark "555.7"	554. 122
FRYEBURG, NORTH ALONG HIGHWAYS, TO NORTH FRYEBURG; THENCE EAST TO LOVELL; THENCE NORTH TO EAST STONEHAM.	
Fryeburg Center, opposite Odd Fellows' hall, in face of large bowlder at northwest corner of road forks; aluminum tablet stamped "438"	437. 797
North Fryeburg, in top face of door stone of Universalist Chapel; aluminum tablet stamped "388"	388. 1.14
North Fryeburg, at northwest corner of Harry Hutchin's general store, on top of stone post; chisel mark "387"	386. 00
Harbor, at Iron Bridge, in top face of stone of northwest abutment; aluminum tablet stamped "381"	380. 870
Lovell, 0.2 mile north of road forks, in front of C. K. Chapman's residence,	
in rock of stone wall; aluminum tablet stamped "440"	439. 425
large bowlder; aluminum tablet stamped "530"	529. 644
Center Lovell, 4 miles north of, in front of Stephen Kimball's residence, west of road, in top face of bowlder embedded in ground; aluminum	
tablet stamped "725"	724. 478
East Stoneham, opposite to Knights of Pythias hall, in large bowlder; aluminum tablet stamped "629"	628. 553
HARBOR, NORTHWEST ALONG HIGHWAY 2.8 MILES (SINGLE-SPUR LINE).	
Harbor, 2.8 miles northwest of, west of road opposite O. P. Stevens's residence, in rock; aluminum tablet stamped "423"	423. 187

BETHEL QUADRANGLE.

LYNCHVILLE, NORTH ALONG HIGHWAY, TO BETHEL.

Lynchville, 2.5 miles north of, 275 feet north of bridge over Crooked River, in rock ledge at west side of road; aluminum tablet stamped "577" Albany, 1.3 miles north of, on rock at northwest corner of road forks; paint mark "654.6"	Feet. 575. 441 Feet. 653. 10
Sango Pond, near south end of, west of road, in top face of large bowlder; aluminum tablet stamped "667"	665. 580
"659"	657. 32
of south abutment of covered highway bridge over Androscoggin River; aluminum tablet (water-resources branch bench mark No. 27)	649. 885
RUMFORD QUADRANGLE.	
LYNCHVILLE, NORTH ALONG HIGHWAY, TO BETHEL.4	
Albany, 0.8 mile south of town house, west of road, near Carter Grover's residence, in rock ledge; aluminum tablet stamped "647"	645. 630
chisel mark "651"	649.71

Belfast, Castine, and Rockland quadrangles.

KNOX AND WALDO COUNTIES.

The elevations in the following list are based on an aluminum tablet in the post-office and custom-house building at Bangor, the elevation of which is accepted as 23.725 feet above mean sea level, as derived from a tide gage at Bucksport.

The leveling of this list was begun at a bench mark at North Searsport, described in another list republished from Bulletin 185 (p. 20), and was double rodded to West Rockport. The leveling was done in 1904 by F. J. McMaugh.

BELFAST QUADRANGLE.

SWANVILLE, SOUTH ALONG HIGHWAY, TO BELFAST.

Swanville, 3 miles south of, in granite ledge at left of road; aluminum tablet stamped "216"	Feet. 215. 852
Belfast, in water table on Church street front of court-house; aluminum	100 000
tablet stamped "102".	102. 368
DUCKTRAP RIVER, SOUTHWEST ALONG HIGHWAY VIA LINCOLN, TO CAMDEN.	
Northport, 4.1 miles south of, 100 feet south of L. D. Ames's house, 65 feet west of road; aluminum tablet stamped "34"	34. 059
Lincolnville Beach, north end of bridge over inlet; mark on stone coping. Lincolnville, 2.4 miles south of, in ledge at top of hill, 25 feet south of wood	8. 68,
road west, 600 feet south of house; aluminum tablet stamped "194"	194. 012

a Portion of a line closing 2,319 feet high upon Androscoggin levels of water-resources branch corrected for a 1-foot error found at Turner Bridge.

CASTINE QUADRANGLE.

BELFAST, SOUTH ALONG HIGHWAY, TO DUCKTRAP RIVER.

221.121, 200111	
Belfast, 2.5 miles south of court-house, coping top of dam at Little River pumping station	Feet. 22. 7
at left of road, on ledge; aluminum tablet stamped "50"	50. 065
ledge; aluminum tablet stamped "120"	119. 789
ROCKLAND QUADRANGLE.	
CAMDEN, SOUTHWEST TO WEST ROCKPORT.	
Camden, Camden National Bank, in granite pier, Elm street front; alumi-	
num tablet stamped "36"	36. 044
West Rockport, 2 feet west of signboard; mark on stone monument West Rockport, in large bowlder southeast side of road to Warren, 500 feet southwest of signboard, 100 feet southwest of house, 25 feet east of center	220. 28
of road; aluminum tablet stamped "228"	227. 980
WEST ROCKPORT, SOUTH ALONG HIGHWAY, TO ROCKLAND; THENCE SOUTHWEST TO THOMASTON; THENCE NORTHWEST TO WARREN; THENCE NORTHEAST TO WEST ROCKPORT.	
Rockland, 3.8 miles north of, in ledge west of road along west shore of Chickawaukie Pond, 80 feet south of telephone pole marked "U.S."	
with arrow pointing toward tablet; aluminum tablet stamped "142" Rockland, in water table at south side of post-office building near south-	142. 029
west corner; aluminum tablet stamped "35"	34. 978
monument	137.83
Thomaston, in first course of west pier of old gateway dated "1824" in wall of state prison grounds, opposite fire station house; aluminum tablet	
stamped "142"	142. 293
Warren, 0.2 mile south of road forks near; in ledge at left of road; aluminum tablet stamped "131"	130. 925
Warren, 3.9 miles northeast of, in ledge at junction of roads 50 feet south of	
main road; aluminum tablet stamped "219"	218. 887

Bangor, Bluehill, Bucksport, Ellsworth, Mount Desert, Orland, and Orono quadrangles.

HANCOCK, PENOBSCOT, AND WALDO COUNTIES.

The elevations in the following list are based on an aluminum tablet in the post-office and custom-house building at Bangor, stamped "23 BANGOR 1899," the elevation of which is accepted as 23.725 feet above mean sea level, as determined by an adjusted circuit from Bucksport, where tidal observations on the Penobscot River were taken during two lunar months in August and September, 1899. The standard bench marks in this area, which were published in Bulletin No. 185, are included in this list.

The leveling was done as follows: In Bucksport quadrangle by Robert Coe and J. W. Edgerly in 1899, and by F. J. McMaugh in 1904; in Bangor quadrangle by J. W. Edgerly in 1900; in Orono quadrangle by J. W. Edgerly in 1900, and by F. J. McMaugh in 1904; in Orland quadrangle by Robert Coe in 1899, and by A. S. Havens in 1901; in Bluehill and Mount Desert quadrangles by A. S. Havens in 1901; and in Ellsworth quadrangle by C. K. Alexander in 1908.

BUCKSPORT QUADRANGLE.

BANGOR, SOUTH ALONG BUCKSPORT BRANCH MAINE CENTRAL RAILROAD, TO BUCKSPORT.	
South Orrington, in foundation of Methodist Church, in middle of south face of third stone from southwest corner; aluminum tablet stamped "61 BANGOR 1899"	Feet. 61. 440
North Bucksport, 0.7 mile south of, 8 feet southwest of milepost "Bucksport 6 miles, Portland 150 miles," point of gray bowlder; chisel mark Bucksport Center, 0.9 mile south of, 10 feet south of milepost "Bucksport 4	103. 38
miles, Portland 152 miles," point of blue bowlder; chisel mark Bucksport, on lowest step of side wall on left side of stone steps to Buck Memorial Library, in front face of coping; aluminum tablet stamped "43"	115. 15
BANGOR 1899."	43. 148
BUCKSPORT, WEST ALONG HIGHWAY VIA PROSPECT, TO NORTH SEARSPORT.	
Prospect, 0.25 mile south of, residence of J. R. Killman, in south face of brick, second above foundation and third from southwest corner; alum-	
inum tablet stamped "77 BANGOR 1899"	76. 710
Hill, north of road, on large gray bowlder; chisel mark	318. 68
BANGOR 1899 "	392. 663
NORTH SEARSPORT, NORTH ALONG HIGHWAY VIA WEST WINTERPORT, TO NORTH NEWBURG.	
West Winterport, residence of J. W. Hobbs, in front face of top front door-step; aluminum tablet stamped "162 BANGOR 1899"	161. 650
Perkins, center of capstone of cellar window at south end; aluminum tablet stamped "387 BANGOR 1899"	386. 814
NORTH SEARSPORT, SOUTHWEST ALONG HIGHWAY, TO SWANVILLE.	
Swanville, 150 feet south of Nickerson & Quinn's store, west of road, in bowlder; aluminum tablet stamped "209"	209. 410
BANGOR QUADRANGLE.	
NORTH NEWBURG, NORTHEAST, TO HERMON CENTER; THENCE EAST ALONG HIGHWAY TO BANGOR.	
North Newburg, at crossroads, 90 feet west of signboards "Winterport 11	
miles, Carmel 4 miles, Bangor 11 miles, North Dixmont 9 miles," in ledge; aluminum tablet stamped "180 BANGOR 1899"	180. 389
Bangor, at south end of post-office and custom-house, about middle of first course of stone above the top of landing steps; aluminum tablet stamped	
"23 BANGOR 1899"	23.725

HERMON CENTER, NORTHWEST ALONG HIGHWAY VIA LEVANT, TO SOUTH CORINTH; THENCE EAST TO OLDTOWN.	
Snow Corner, 100 feet northeast of crossroads, south of highway, at rear of post-office, in root of fir tree; nail	Feet. 168. 90
Levant, west face of southeast corner stone of underpinning of post-office; aluminum tablet stamped "143 BANGOR"	142. 988
root of 3-foot elm tree; nail	137. 05
on Cushman Hill; bronze tablet stamped "296 BANGOR"	295, 935 151, 363
West Oldtown, 300 feet west of corner, 36 feet north of road, southeast face of large bowlder; bronze tablet stamped "126 BANGOR"	125. 678
ELLSWORTH QUADRANGLE.	
ELLSWORTH, NORTH ALONG MAINE CENTRAL RAILROAD AND HIGHWAY, TO TILDEN; THENCE EAST TO WALTHAM.	
Ellsworth, in foundation of Ellsworth Trust Company's bank building; aluminum tablet stamped "24"	23. 993
Ellsworth Falls, 2.6 miles northwest of, on Mariaville road, 150 feet east of road in field, in top face of large bowlder; aluminum tablet stamped "145"	145. 005
Lakewood, 0.1 mile south of road corner, 30 feet west of road, in rock ledge; aluminum tablet stamped "181".	181. 012
Lakewood, 3.1 miles north of, at forks of old and new roads, east of road, 100 feet south of corner, in top face of large bowlder; aluminum tablet	
stamped "204". Tilden, at southeast corner of road forks, in top face of large bowlder; aluminum tablet stamped "231".	203. 891 230. 938
Waltham, 1 mile north of post-office, 0.1 mile west of crossroads, north of road, in top face of large bowlder; aluminum tablet stamped "414"	414. 243
Waltham, at summit of hill, 250 feet north of graveyard, opposite school-house, on north side of old cellar, in top face of buried rock; aluminum	400 005
tablet stamped "480" (triangulation station). ELLSWORTH, EAST ALONG MAINE CENTRAL RAILROAD, TO FRANKLIN; THENCE NORTH AND WEST TO WALTHAM.	480. 285
Washington Junction, 0.25 mile east of station, on south side of Washington County Railway, in top face of large bowlder; aluminum tablet	
stamped "172"	172. 354
aluminum tablet stamped "121"	121. 547
in top face of large bowlder; aluminum tablet stamped "88" Eastbrook Corners, 3 miles south of, near crossing of outlet of Georges Pond,	88. 473
private road running west, west of road just south of road forks, in top face of large bowlder; aluminum tablet stamped "168"	168. 063
Eastbrook Corners, at southwest side of, in top face of large bowlder; aluminum tablet stamped "169"	169. 180
Waltham, southwest to \boldsymbol{A} point 2 miles north of ellsworth falls.	
Waltham, 1 mile south of post-office, 0.05 mile north of road forks, east of road, in top face of large bowlder; aluminum tablet stamped "176"	176.007

Waltham, 4 miles south of, near small summit (lower elevations toward south), in top face of large bowlder west of road; aluminum tablet stamped "168"	Feet. 167. 787
Ellsworth Falls, 4.5 miles north of, on rock lying west of road; chisel mark	
"107". Ellsworth Falls, 3.5 miles north of, at southwest corner of No. 8 plantation, 0.5 mile south of schoolhouse, east of road, in top face of large bowlder;	106, 41
aluminum tablet stamped "125"	124. 555
ORONO QUADRANGLE.	
MILFORD, NORTHEAST ALONG HIGHWAY 7 MILES (SPUR LINE).	
Milford, 7 miles northeast of, near highway bridge over Birch Stream on Milford-Greenfield road, 80 feet south of center of and 28 feet east of center of traveled highway, in ledge; bronze tablet stamped "130 BANGOR".	130. 586
OLDTOWN, SOUTHWEST ALONG HIGHWAY AND MAINE CENTRAL RAILROAD, TO VEAZIE.	
Oldtown, St. James Episcopal Church, corner Maine and Middle streets,	
east end of north face; aluminum tablet stamped "108 BANGOR" Orono, University of Maine, in west face of coping stone of Wingate hall;	108. 106
aluminum tablet stamped "115 BANGOR"	115. 529
VEAZIE, SOUTHEAST ALONG HIGHWAY, TO EAST EDDINGTON.	
East Eddington, Universalist Church, in northwest corner stone; bronze	
tablet stamped "193 BANGOR"	193. 426
EAST EDDINGTON TO CLIFTON (SINGLE SPUR LINE).	
Clifton, 9 feet east of southeast corner of Free Baptist Church, in ledge; 3-inch iron bolt	285. 338
EAST EDDINGTON, SOUTH TO EAST HOLDEN; THENCE WEST ALONG MAINE CENTRAL RAILROAD, TO BANGOR.	
Harts Corners, in east face of underpinning of Holden townhouse, 11 feet south of entrance; aluminum tablet stamped "296 BANGOR"	298. 210
OLDTOWN, NORTH ALONG MAINE CENTRAL RAILROAD, TO COSTIGAN.	
Milford, in front of station; top of rail.	. 129. 2
Oldtown, 3.1 miles north of, east side of track, in ledge; aluminum tablet stamped "133 BANGOR"	132, 562
ORLAND QUADRANGLE.	
BUCKSPORT, VIA ORLAND, EAST ORLAND, AND WEST ELLSWORTH, TO ELLSWORTH.	
East Orland, 960 feet east of bridge at road forks, 70 feet to left of road, on	100 200
side of bowlder; aluminum tablet stamped "168 B 1899"	168. 059
in field; aluminum tablet stamped "275 BANGOR 1899"	275. 497
ELLSWORTH, NORTHWEST OVER WAGON ROAD, TO EAST HOLDEN.	
Nicolin, 50 feet to left of Ellsworth-Bangor road and 10 feet to right of road	
from Nicolin railroad station to Branch Pond, on gray rock; aluminum	
tablet stamped "446 BANGOR". Dedham, 1.5 miles south of Lake House railroad station, in west side of big	446. 475
bowlder; aluminum tablet a stamped "287 BANGOR"	286. 545

a An adjustment of nearly 2 feet is made in line between here and East Holden.

ne. 23

MAINE.	23
ORLAND, NORTH TO NEAR EAST BUCKSPORT (SINGLE SPUR LINE).	
East Bucksport, 3 miles south of, northeast corner stone of East Bucksport Church; aluminum tablet stamped "186 BANGOR"	Feet. 186. 119
BLUEHILL QUADRANGLE.	
EAST ORLAND, SOUTHEAST ALONG HIGHWAY, TO BLUEHILL; THENCE NORTHEAST TO SURRY.	
North Bluehill, 660 feet west of crossroads, 30 feet north of road running west, in bowlder; bronze tablet stamped "337 BANGOR 1901"	336. 809 14. 981 174. 19
MOUNT DESERT QUADRANGLE.	
FROM SURRY NORTHEAST TO ELLSWORTH.	
Surry, 0.5 mile east of, 800 feet east of Surry townhall, 15 feet to right of road, in rock ledge; bronze tablet stamped "88 BANGOR 1901"	88. 874
Lincoln, Mattawamkeag, Millinocket, Passadumkeag, and Winn quadra	ngles.
PENOBSCOT COUNTY.	
The elevations along Penobscot River in the following based on an aluminum tablet in the post-office and custom building at Bangor, stamped "23 BANGOR 1899." The tion of this bench mark is accepted as 23.725 feet above melevel. A double-rodded line was run, beginning at a bench at Oldtown, reported in another list (p. 22) republished from letin 185. From Millinocket, water and spirit levels were expected by the Great Northern Paper Company and the water-results branch of the United States Geological Survey to Moosehead a junction was made with the Kennebec levels. The extendivations were found to be in such close agreement with the Kellevels, as corrected in 1906 to reliable mean sea-level datum a land, that no adjustment has been made in determining the tions of this list. The leveling was done in 1904 by F. J. McMaugh.	eleva- ean sea n mark m Bul- tended sources , where led ele- ennebec at Port-
PASSADUMĶEAG QUADRANGLE.	
COSTIGAN, NORTH ALONG MAINE CENTRAL RAILROAD, TO ENFIELD.	
Costigan, 215 feet north of station, railroad bridge, east end of south abut-	Feet.

Costigan, 215 feet north of station, railroad bridge, east end of south abutment; aluminum tablet stamped "115"	Feet. 114. 979
Greenbush, 1.6 miles south of, in milestone marked "Vanceboro 93 miles,	
Portland 158 miles;" aluminum tablet stamped "122"	121. 999
Greenbush station; top of west rail	133. 5
Greenbush, 1.4 miles north of, east side of track, in milestone marked	
"Vanceboro 90 miles, Portland 161 miles;" aluminum tablet stamped	
"145"	144. 985
Olamon, in front of station; top of east rail	131. 3
Olamon, 0.7 mile north of, east side of track, in milestone marked "Vance-	
boro 87 miles, Portland 164 miles;" aluminum tablet stamped "144"	143. 957

Passadumkeag, railroad bridge over Passadumkeag River, east end of south abutment; aluminum tablet stamped "140"	Feet. 139. 528
land 170 miles;" aluminum tablet stamped "185"	185. 039
LINCOLN QUADRANGLE.	
ENFIELD NORTHEAST ALONG MAINE CENTRAL RAILROAD, TO LINCOLN CENTER.	
Enfield, in front of station; top of east rail. Enfield, 1 mile north of, in milestone marked "Vanceboro 78 miles, Port-	202. 9
land 173 miles;" aluminum tablet stamped "221"	220. 984
stamped "242"	241. 989
South Lincoln, in front of station; top of rail	238. 5
"241"	240. 975
Lincoln, in front of station; top of west rail	216. 3
Portland 182 miles;" aluminum tablet stamped "223"	222. 970
WINN QUADRANGLE.	
LINCOLN CENTER, NORTHEAST ALONG MAINE CENTRAL RAILROAD, TO MATTAWAMKEAG.	
Lincoln Center, in front of station; top of east rail	179. 0
miles;" aluminum tablet stamped "225"	224. 958
North Lincoln, in front of station; top of east rail	210. 2
miles, Portland 188 miles;" aluminum tablet stamped "229" Winn, 1.2 miles southwest of, in milestone marked "Vanceboro 60 miles,	228. 977
Portland 191 miles;" aluminum tablet stamped "199"	199. 142
Winn, in front of station; top of east rail	212. 1
MATTAWAMKEAG QUADRANGLE.	
MATTAWAMKEAG, NORTHWEST ALONG HIGHWAY, TO MEDWAY.	
Mattawamkeag, in front of station; top of east rail	217. 8
east end of south abutment; aluminum tablet stamped "213"	212. 692
feet north of junction with main road to Medway, large bowlder; aluminum tablet stamped "217"	217. 013
Mattawamkeag, 6.64 miles northwest of, west of road in clearing, 120 feet northeast of small shack, 160 feet east of log cabin, large bowlder; alumi-	217, 013
num tablet stamped "320"	320. 184
Lakeman's house, in ledge; aluminum tablet stamped '256"	256. 261

MILLINOCKET QUADRANGLE.

MEDWAY, NORTHWEST ALONG HIGHWAY, TO MILLINOCKET; THENCE SOUTHWEST, ALONG BANGOR AND AROOSTOOK RAILROAD, TO TWIN LAKES.

Medway, 0.27 mile west of ferry, on land of A. T. Reed, 50 feet east of road	Feet.
and 120 feet west of his house, in ledge; aluminum tablet stamped "279".	278.911
Medway, 5.30 miles northwest of, 745 feet north of Charles T. Powell's	
house, 35 feet west of road, in bowlder; aluminum tablet stamped "306"	305. 598
Millinocket Congregational Church, southeast corner of granite underpin-	:
ning of tower; aluminum tablet stamped "384"	383.992
Millinocket, in front of station; top of south rail	363. 3
Twin Lake dam (4.87 miles southwest of Millinocket), top of north pier at	•
24-foot gate opening; aluminum tablet stamped "495"	494. 562
Twin Lake dam, 1 mile east of Norcross, 80 feet south of dam, south of track,	
in large bowlder; copper bolt a	503.43

MAINE.

Cherryfield quadrangle.

WASHINGTON COUNTY.

The elevations published in the following list are based on a bronze tablet at Millbridge, one-third mile southeast of post-office, in brown rock ledge on shore of harbor and 70 feet south of Sawyer's sardine wharf, stamped "7 B 1901," the elevation of which is 7.247 feet above mean sea level, as determined by connection with tide gage at Millbridge upon which high and low water readings were made daily during a period of one lunar month in July and August, 1901. The standard bench marks depending on this datum are referred through sea-level connections to the central datum at Bangor and are stamped with the letter "B" in addition to the figures of elevation and year. The leveling was done in 1901 by A. S. Havens.

MILLBRIDGE, ALONG HIGHWAYS VIA STEUBEN AND UNIONVILLE, TO CHERRYFIELD.

Millbridge, at end of Sawyer's sardine wharf, 10 feet from southwest corner; ringbolt through stringpiece.	Feet. 9. 56
Millbridge, 70 feet south of Sawyer's sardine wharf, in brown rock ledge on shore of harbor; bronze tablet stamped "7 B 1901"	7. 247
Millbridge, northeast corner of Main street and road to sardine wharf, on	1. 241
granite post; chisel mark	33. 24
Millbridge, southeast corner of Main street and Harrington road (signboard	
reads "Harrington 8 miles"), on granite post; chisel mark	48. 57
Steuben, at northwest corner of road intersection, on granite post (signboard reads "Gouldsboro 5 miles, Unionville 6 miles"); chisel mark	46, 32
Cherryfield, 0.1 mile south of station, in northwest corner of junction of	40. 32
east-west road (signboard reads "Franklin 18 miles, Harrington 6 miles"),	
in face of rock ledge; bronze tablet stamped "44 B 1901"	44. 444

a Used by Mr. Ferguson, of the Great Northern Paper Company, Millinocket, as basis of work in the vicinity of Twin Lakes.

CHERRYFIELD, EAST TO HARRINGTON; THENCE NORTHEAST TO EPPING; THENCE WEST VIA SCHOODIC LAKE TO GREAT FALLS BRANCH SCHOODIC BROOK; THENCE SOUTHEAST TO

CHERRYFIELD.	
Harrington, 0.6 mile west of, at east end of new steel bridge over Harring-	
ton River, on south side of abutment; bronze tablet stamped "B 14	Feet.
1901"	14. 044
Epping, 1.25 miles west of, 60 feet west of crossroad from Columbia railroad	
station, 10 feet south of road, on bowlder; bronze tablet stamped "226 B	
1901"	226. 117
Epping, 3.5 miles west of, East Base Coast and Geodetic Survey base line	
station, on granite monument; bronze bolt	254.187
Cherryfield, 9.3 miles northwest of, on Denlois road, 1 mile southeast of	
road fork to Epping, 40 feet north of bridge over Great Falls Branch	
Schoodic Brook, 5 feet west of road, in face of large gray bowlder; bronze	
tablet stamped "151 B 1901".	151.128

Cutler and Eastport quadrangles.

WASHINGTON COUNTY.

The elevations in the following list depend on the height of a tidal bench mark described as "a hole drilled on Gun Rock, Lubec Channel," the height of which was determined by the United States Engineer Corps in 1878 from fifty-six consecutive day and night observations.^a

The circuit on Eastport quadrangle was closed through water levels between Eastport and Lubec.

The leveling was done in 1907 by H. M. Gilman.

EASTPORT QUADRANGLE.

LUBEC, SOUTHWEST ALONG HIGHWAYS, TO WHITING; THENCE NORTHWEST TO DENNYSVILLE;
THENCE EAST VIA WEST PEMBROKE TO EASTPORT.

Lubec, Lubec Channel, in top of rounded rock, known as Gun Rock, in base of extremity of breakwater, established by United States Engineer Corps in 1878 (observations by Captain Trott, of Lubec); drill hole	Feet. 8, 291
Lubec, northeast of road, in southwest face of foundation of Disciples	
Church; aluminum tablet stamped "118, 1907"	118.852
West Lubec, 1.2 miles east of, 500 feet west of small wooden bridge in hol-	
low, 250 feet north of road, in rock ledge; aluminum tablet stamped	
"45, 1907"	46.082
Whiting, 3.4 miles east of, 2 miles southwest of West Lubec, south edge of road, 250 feet south of John Craig's house, in rock ledge; aluminum tablet	
stamped "96, 1907"	97.076
Whiting, 0.3 mile east of road forks, 5 feet north of road at edge of stream in hollow, in top surface of rock ledge; aluminum tablet stamped "20,	
1907 "	20.940
Whiting, 2.5 miles north of, 80 feet south of large iron bridge east of road in	
top of rock ledge; aluminum tablet stamped "20, 1907"	20.322
Dennysville, 3.5 miles south of, 30 feet west of road, 80 feet northeast of	
house at bend in road, in top face of rock ledge; aluminum tablet stamped	
"147, 1907"	147.671
·	

Dennysville, 660 feet southeast of bridge over Dennys River, near top of hill by schoolhouse, in top face of rock ledge southwest of road; aluminum tablet stamped "86, 1907"	Feet. 87.005
stamped "141, 1907". West Pembroke, 100 feet north of Union League Church, south of road, in rock ledge; aluminum tablet stamped "68, 1907".	141. 965 68. 369
Pembroke, 4 miles east of, 6.7 miles northwest of Eastport, 500 feet southeast of road forks, on opposite side of road from C. H. Leones' house, in top of rock ledge west of road; aluminum tablet stamped "62, 1907"	62. 975
Eastport, 3.5 miles northwest of, 500 feet east of toll bridge, in west end of stone watering trough at top of hill; aluminum tablet stamped "62,	62. 657
Eastport, corner of Washington and Water streets, in west face of southwest corner of granite belting course of custom-house and post-office; alumi-	
num tablet stamped "40, 1907"	40. 920
WEST LUBEC, SOUTHWEST ALONG HIGHWAYS TO CUTLER; THENCE NORTH TO WHITING.	
West Lubec, 3.2 miles south of, 500 feet west of stream crossing, in front of Stewart McFadden's house, 5 feet south of road, in rock ledge; aluminum tablet stamped "22, 1907"	22. 440
West Lubec, 6.3 miles southwest of, 7.5 miles northeast of Cutler, at end of T road north, north side of road, in top of rock ledge; aluminum tablet stamped "31, 1907"	
5.00mpod 52, 250, 111111111111111111111111111111111111	31. 600
Cutler, 3 miles northeast of, 110 feet north of road, 80 feet west of small house on hill, in rock ledge; aluminum tablet stamped "136, 1907"	31. 600 136. 226
Cutler, 3 miles northeast of, 110 feet north of road, 80 feet west of small	
Cutler, 3 miles northeast of, 110 feet north of road, 80 feet west of small house on hill, in rock ledge; aluminum tablet stamped "136, 1907" Cutler, 600 feet west of road forks, north of road, in front of Samuel Maker's house, in top face of rock ledge; aluminum tablet stamped "24, 1907"	136. 226

Augusta, Bath, Bethel, Buckfield, Dixfield, Freeport, Gardiner, Lewiston, Livermore, and Rumford quadrangles.

ANDROSCOGGIN, CUMBERLAND, FRANKLIN, KENNEBEC, OXFORD, AND SAGADAHOC COUNTIES.

The elevations in the following list of bench marks established by the water-resources branch of the United States Geological Survey under the general direction of H. K. Barrows, district engineer, were determined by a double-rodded primary-level line extended from Augusta along the Maine Central Railroad to Brunswick; thence up Androscoggin River along railroad and highways to Errol, N. H. The New Hampshire elevations are not included in this list. The leveling was begun at a gage bench mark at Hallowell, Me., the stated elevation of which proved later to be unreliable. The elevations now given are based on mean sea level determined by gage record at

Portland, and accord with elevations determined by precise leveling of the topographic branch of the Geological Survey, from Portland to Brunswick, as given in another list (pp. 8-9). At Turner Bridge, 39.7 miles from Brunswick, a 1-foot error was discovered by certain checked relevelings, and the remainder of the line was corrected by that amount; but there yet remains an outstanding discrepancy of 2.3 feet between this line and levels of the topographic branch at Bethel, an error that may be located by future work.

In running the base levels of 1905, from Hallowell via Brunswick to Livermore Falls, H. S. Boardman was chief of party. In running the base levels of 1906, from Livermore Falls to Errol, N. H., C. Robert Adams and T. W. Norcross were chiefs of party.

Primary leveling by the water-resources branch extended from Augusta.

FROM AUGUSTA, SOUTHWEST ALONG MAINE CENTRAL RAILROAD AND HIGHWAY, TO BRUNSWICK (DOUBLE-RODDED LINE).

Distance in miles.	Location and description of bench mark.	Elevation in feet.
	AUGUSTA QUADRANGLE.	
	Augusta, northwest corner of west wing of statehouse; aluminum tablet	152. 950
	(Coast and Geodetic Survey bench mark No. 2)	27. 091
	GARDINER QUADRANGLE.	
* .	Gardiner, opposite post-office, in northeast corner of Savings Institution Building; aluminum tablet.	25, 417
	Richmond, building used for post-office, in left side of entrance; aluminum tablet. Bowdoinham, in west abutment of highway bridge over Cathance River; aluminum	30. 935
	tablet	7. 117
	BATH QUADRANGLE.	
	Topsham, on east abutment of railroad bridge over Topsham street, west of track; marked "41.5"	44. 139
•••••	Brunswick, in left side of front entrance to building used as post-office and town hall; aluminum tablet	69, 589

FROM BRUNSWICK, NORTH ALONG MAIN'B CENTRAL RAILROAD AND HIGHWAY, UP ANDROSCOGGIN RIVER.

	FREEPORT QUADRANGLE.	
3.1	Pejepscot, 58.5 feet south of center of track, 60 feet north of north end of railroad station, in pasture belonging to Emory Barnes, in ledge; aluminum tablet	175. 421
9.9	Lisbon Falls, about 10½ miles from Lewiston, at side of river opposite lower end of Frosts Park, in ledge; aluminum tablet	111. 231
	LEWISTON QUADRANGLE.	
14.0	Lewiston, 61 miles from, on south abutment of Moody Brook Bridge, east of track;	
15. 2	point marked "U.S.184"	186.683
	point marked "S"	190.098
20. 6	Lewiston, on west end of dam No. 4 Union Water Power Company; point marked "S".	170.608
24. 9	Dingley farm, 300 feet east of road, near north line, in large bowlder; aluminum tablet.	265, 527
26. 7	Babbett & Googin dam, in high point of ledge below (ledge is in bed of river and is an island during high water); aluminum tablet	225. 889
	LIVERMORE QUADRANGLE.	
36.2.	road, in low flat ledge; aluminum tablet	283. 111
45. 6	Strickland, about 1.8 miles above station, 150 feet north of A. E. Hunton's house, about 200 feet east of road, in ledge; aluminum tablet.	296, 970
50.9	Farmington, 17.6 miles from east abutment of Shuey plate-girder bridge; aluminum tablet.	300.038
51.9	Livermore Falls, in southwest corner of post-office building; aluminum tablet	349. 355

FROM LIVERMORE FALLS, ALONG THE MAINE CENTRAL RAILROAD AND THE GRAND TRUNK RAILWAY AND HIGHWAYS, UP ANDROSCOGGIN RIVER, TO ERROL, N. H.

	. LIVERMORE QUADRANGLE.	•
$\begin{array}{c} 00.00 \\ 1.2 \end{array}$	Livermore Falls, in southwest corner of post-office building; aluminum tablet Chisholm, 0.5 mile north of station, in downstream side of east abutment of Maine Central Railroad bridge over Androscoggin River: aluminum tablet knorizon-	349. 355
2.7 4.9	tally). Jay Bridge, 73 feet west of station, in vertical face of large bowlder; aluminum tablet Rileys, 176 feet north of station, in granife rock ledge; aluminum tablet	355. 716 382. 965 396. 175
	BUCKFIELD QUADRANGLE.	
8. 2 10. 4	Meadowview, near the west end of the first "out" west of, in first granite ledge west of Meadowview station, south of railway; aluminum tablet	391. 726 395. 591
14.9	East Peru, 0.3 mile east of, on northwest bridge seat of railroad bridge over Worthley Brook; aluminum tablet.	394. 961
	DIXFIELD QUADRANGLE.	
20. 4	Androscoggin River, bridge over, between West Peru and Dixfield, cemented in southwest bridge seat of highway; aluminum tablet	411. 482
	RUMFORD QUADRANGLE.	
25. 2 26. 1	Rumford Falls, in northeast corner of Rumford Water Company building on Com- merce street; aluminum tablet. Rumford Falls, on southwest corner of bridge seat of westabutment of highway	507. 787
32. 9	bridge over the river just above the upper dam; aluminum tablet	625. 447
	side of bowlder at base of hill, opposite halfway between blazed telegraph poles;	629. 508
3 5. 4	Rumford Point, in southeast corner of foundation of A. J. Marbles's house; aluminum tablet.	635. 876
	BETHEL QUADRANGLE.	
42. 5	Newry Corner (on road to Bethel), 500 feet south of, in east corner of north abutment of high bridge over Bear River; aluminum tablet.	635, 916
48. 2	Androscoggin River, highway bridge over, between Mayville and Bethel, in west end of south abutment of; aluminum tablet a	647, 566
53. 2	West Bethel, 1 mile west of, in northeast corner of east abutment of highway bridge	655. 764
58.7	over Pleasant River; aluminum tablet. Gilead, 0.5 mile west of, in north corner (second course from top) of east abutment of Grand Trunk Railway bridge over Wild River; aluminum tablet	712.052

a The elevation of this bench mark by topographic branch from Portland is 649.885.

Several unnamed quadrangles.

PENOBSCOT, PISCATAQUIS, AND SOMERSET COUNTIES.

The elevations in the following list of bench marks established by the water-resources branch of the United States Geological Survey, under the general direction of H. K. Barrows, district engineer, were determined from double-rodded primary-level lines run with a 20-inch Gurley wye level and two Philadelphia rods. These elevations result from a preliminary adjustment, under which the elevations at Medway and Moosehead, determined by the primary-level lines of the topographic branch extended from Bangor and Portland were accepted without correction. A new adjustment will not be made unless shown to be advisable when additional primary connections have been made between Penobscot and Kennebec rivers.

In running the base levels of 1905 from Chesuncook to Northeast Carry and from Moosehead west to Jackman, George M. Brett was chief of party. In running the base levels of 1906 on West Branch Penobscot River, from Chesuncook Lake southeast to Norcross, and the base levels of 1907 from Allagash Lake to Grand Lake dam H. S. Boardman was chief of party. In running the base levels of 1908 from Grand Lake dam southeast down East Branch Penobscot River to Medway H. S. Boardman was chief of party and A. L. Grover was instrument man.

Primary leveling by the water-resources branch in several unnamed quadrangles.

FROM CHESUNCOOK TO NORTHEAST CARRY.

Distance in miles.	Location and description of bench mark.	Elevation in feet.
		201.001
	Chesuncook, 18 feet east of post-office, in top of 6-foot post; iron bolt.	
	Chesuncook, 150 feet south of post-office, in root of stump; nail	931. 757 1, 009. 133
1.6	Chesuncook, 1.6 miles from, in pine tree on right side of trail; nail	1,009.133
$\frac{1.0}{2.5}$	Chesuncook, 2.5 miles from; small bowlder on left side of trail.	1,015.318 930.449
2.94	Chesuncook, 2.94 miles from, 1,000 feet below mouth of Pinetree Stream, 10 feet	330. 449
2. 94	above water, on right bank of Penobscot River, in ledge; aluminum tablet	
	(permanent bench mark No. 1).	936, 907
3, 39	Chesuncook, 3.39 miles from, in stump on right side of trail: nail	946, 668
3, 39	Chesuncook, 3.39 miles from, in stump on right side of trail; nail	949.060
4. 17	In telephone pole: snike	1,005,350
5. 72	Foxhole Rips, at foot of, in ledge on right bank of river; aluminum tablet (per-	=,000.000
	manent bench mark No. 2)	945, 027
6.6	Jim Smith's halfway house, 3.1 miles below, in pine tree at southwest end of field;	
	nail	951.444
7.3	In root of pine tree at right of trail; nail	979.059
7.95	In root of cedar tree at left of trail; nail.	961.358
8. 14	On bowlder at edge of water	954, 868
8.7	In root of cedar tree at right of trail; spike Jim Smith's halfway house, 150 feet west of, in vertical face of bowlder on right	968. 291
9.7	Jim Smith's halfway house, 150 feet west of, in vertical face of bowlder on right	
	bank, 1 foot from ground; aluminum tablet (permanent bench mark No. 3)	
10.35	In fir tree at right of trail, 3 feet from ground; nail	985. 635
10.5	In root of fir tree at right of trail; nail	995. 457
11.7		969, 497
11.9	ground; fron pin. In poplar tree at right of trail, 1 foot from ground; spike. In root of large poplar tree at right of trail; nail.	909. 497
13.3	In popular tiree at right of than, I noot from ground, spike	969, 117
13. 9	In root of birch tree at left of trail; nail.	969. 784
14.4	In birch stump at left of trail; nail.	971. 249
15.6	In root of spruce tree at left of trail; spike	970. 814
16. 2	In root of cedar tree at right of trail; spike	973. 243
16.99	In root of fir tree at left of trail; spike	973.020

Primary leveling by the water-resources branch in several unnamed quadrangles—Cont'd. FROM CHESUNCOOK TO NORTHEAST CARRY—continued.

Distance in miles.	Location and description of bench mark.	Elevation in feet.
17. 59	In root of fir tree at right of trail; spike.	970.971
17.9	Lobster Stream, east end of bridge over, nearly flush with ground; long iron bolt	979, 269
18, 4	driven into top of stump	979. 209
19. 5	In root of fir tree at left of trail; spike.	972.307
20.5	In root of fir tree at left of trail; spike. Landing place at river, 500 feet south from, at left of road to Northeast Carry; top of bowlder.	980, 336
21.8	Northeast Carry, 0.5 mile north of, in root of poplar tree west of road: nail.	1,077.924
22. 5	Northeast Carry, 200 feet southwest of Winnegarnock House, about 100 feet from shore of Moosehead Lake, on top of bowlder; aluminum tablet (permanent	,
	hench mark No. 4)	1,033.429
	Bench mark of Kennebec Water Power Company, marked "22.36;" copper bolt cemented in same bowlder	1,033.594

FROM MOOSEHEAD WEST TO JACKMAN.

	Moosehead, abutment of Canadian Pacific Railway bridge, southeast corner, on	
	east side of Moosehead Lake; aluminum tablet stamped "1026 AUGUSTA" (permanent bench mark No. 1)	1,028.154
0.86	In third telegraph pole southeast of signpost "Moosehead 1 mile" at left of track,	1,020.101
	1 foot from ground: railroad spike	1,064.979
2.8	In third telegraph pole west of milepost 47, 1 foot from ground; railroad spike	1,018.451
3.9 4.4	Milepost 48, 800 feet west of, south of track; small bowlder	1,027.079
4. 4	Moosehead, 4.4 miles west of, on top of top stone of northeast wing wall of bridge over west outlet of Moosehead Lake; aluminum tablet (permanent bench mark	
	No. 2)	1,028.215
5.95	Rock at south side of track.	1, 105, 040
7.74	Rock at south side of track. Askwith, 1,000 feet west of, on top of top stone of southeast wing wall of bridge over	1,100.010
	Misery Stream; aluminum tablet (permanent bench mark No. 3)	1,109.807
9.73	Milepost 54, 350 feet east of, south of track; bowlder	1,081.662
11.06	Milepost 55, about 1,200 feet west of, north of track; bowlder	1,112.959
12.71	In fourth telegraph pole east of milepost 57, south of track, 2 feet from ground; spike. Milepost 58; spike (temporary bench mark of Canadian Pacific Railway)	1, 138. 652
14.6	Mackamp, 1.5 miles east of, 25 feet east of end of dam, 15 feet south of storehouse,	1, 171. 516
14.0	in bowlder near south end of Long Pond dam on Moose River; aluminum tablet	
	(permanent bench mark No. 4).	1,159.911
14.7	(permanent bench mark No. 4)	1,173.091
15.53	Mackamp, 0.5 mile east of, 1,300 feet east of milepost 60; bowlder south of railroad	
17.2	track.	1,168.883
18.88	Mackamp, 1 mile west of, opposite sign "Mackamp 1 mile;" bowlder north of track.	1,179.401 1,185.980
19.2	Opposite milepost 63; bowlder north of track	1,100.900
20.2	Stream; aluminum tablet (permanent bench mark No. 5)	1,168,973
	Milepost 64; spike (temporary bench mark of Canadian Pacific Railway)	1,163.311
22, 22	Long Pond station, 800 feet west of; bowlder 25 feet south of track	1,177.959
24.3	Long Pond, 75 feet from shore of, where railroad leaves the pond; northeast corner of stone culvert under railroad track.	1 107 407
26, 55	of stone culvert under railroad track. Milepost 71, 0.25 mile east of, in telegraph pole south of track; spike	1,177.475 1,165.693
29.56	Tackman onnosite railroad station: howlder south of track	1, 103. 093
30.2	Jackman, opposite railroad station; bowlder south of track	1,199.445
31.51	Jackman, 2 miles west of, on northeast abutment of railroad bridge over Moose	,
	River between Wood and Attean ponds; aluminum tablet (permanent bench	
	mark No. 6).	1,170.357
•••••	Brassua Lake, on east shore 20 feet from water, 2,000 feet from mouth of Misery Stream, 4,900 feet from Moose River outlet, on top of, bowlder; aluminum tablet.	1,050.72
	butoam, 1,200, lees from mouse torver outlet, off top of, now idet, and minum tamet.	1,000.72
	<u> </u>	

FROM CHESUNCOOK LAKE, SOUTHEAST ON WEST BRANCH PENOBSCOT $\mathtt{R} \mathsf{U} \dot{\mathsf{V}} \mathtt{E} \mathsf{R}$, to norcross.

	Chesuncook Lake, at foot of, 100 feet south and 30 feet east of end of dam; Great Northern Paper Company's bench mark No. 15 (elevation given, 945.647)	943. 019
	Chesuncook dam, near south end of; on large rock marked "G S"	936. 102 935. 440
•••••	Chesuncook dam, in top of high ledge just south of south wing; aluminum tablet (permanent bench mark No. 1)	956, 741
0.70	Ripogenus Lake, head of, lower end of long carry, on two medium-sized bowlders;	897. 752 897. 311
2.94	Ripogenus Lake, foot of, near shore in front of hovel; on rock; marked "US GS".	892. 936 892. 594
3.65	Ripogenus Lake, below, on rock by ledge along carry road, marked "G S"	978. 213 978. 450

Primary leveling by the water-resources branch in several unnamed quadrangles-Cont'd.

FROM CHESUNCOOK LAKE, SOUTHEAST ON WEST BRANCH PENOBSCOT RIVER, TO NORCROSS—continued.

Distance in miles.	Location and description of bench mark.		evation n feet.
4. 03	On rock on top of highest steep pitch, near big yellow birch on carry road marked "Elevation 976.44" (Great Northern Paper Company's bench mark No. 13)		072 042
4.40	Carry road, 20 feet north of, on black rock about 2 feet wide by 2½ feet long by 2 feet high, on top of knoll of patting in place, small fir 10 feet west marked "Elevation"		973. 943
5. 11	799.64" (Great Northern Paper Company's bench mark No. 12) "The Arches," in ledge, pine tree beside the carry road on which is placed telephone box bears N. 80° W. 57 feet, end of wing dam bears about N. 45° E. 175 feet;		797. 137
5. 37	aluminum tablet (permanent bench mark No. 2). Big Eddy, north of road, about 200 feet above clearing, maple tree 6 inches in diameter 5 feet east of rock marked "Elevation 688.96," large triangular rock;		724. 831
5. 45	point of rock (Great Northern Paper Company's bench mark No. 11). Big Eddy, at southwest corner of grass plot, about 13 feet from large pine tree marked "Elevation 683.76;" painted stone (Great Northern Paper Company's bench mark No. 10).		686. 487 681. 288
5. 49	Big Eddy, on root of pine tree near camp; turning points marked "USGS"	Į	683.046
6. 48	Little Ambajemackomus Falls, on rock 500 feet below foot of falls, on right shore.	}	682. 659 659. 496
.	marked "USGS". Big Ambajemackomus Falls, rock on right shore at head of falls, marked "USGS"	Ĭ,	659.725
7. 28 8. 56	G S" Horse race on good-sized white rock near where new telephone line crosses river; point of cross marked "B M elevation 623.74. U S G S" (Great Northern	{	657. 867 657. 627
8.95	Paper Company's bench mark No. 9). Horse race, foot of, on right shore, in top of bowlder on small knoll about 75 feet from river, about 220 feet from dead water, birch tree 12 inches in diameter bears west 12 feet, marked "ILS G.S.B.M. No. 3." aluminum, tablet (normanent,		621. 190
11. 17	bench mark No. 3) Sourdnahunk Deadwater, foot of, on left bank, 1,100 feet above dam, on rock marked "U S G S"	{	617. 296 605. 132 604. 867
11. 32	Sourdnahunk dam, in ledge on upper end of "heater" above overflow of dam (station "S" on cross-section work of August, 1903, elevation 617.36); wooden plug	•	
14.02	with nail in center (Great Northern Paper Company's bench mark No. 8) Katahdin Stream, about 0.25 mile above dryway at island, 250 feet from and on opposite shore from dryway, on large bowlder marked "U.S.G.S"	{	614. 801 569. 160 568. 767
14. 84	Abol Stream, opposite mouth of stream on right bank, on large bowlder marked "USGS"	{	567. 190 566. 876
15. 08 15. 43	Abol carry road, right of river, beside road, near upper end of long carry road, 115 feet from bank, in top of large triangular bowlder, poplar tree bears N. 17½ feet, another poplar tree bears E. 9 feet, spotted and marked "USBM No. 4;" aluminum tablet (permanent bench mark No. 4). Abol Falls, on large round granite rock 30 feet northeast from north end of wing		580. 275
	on carry side of the falls, elevation 571.945; mark (Great Northern Paper Company's bench mark No.?) Packwackamus Falls, on right bank, opposite middle of lower pitch, 60 feet from		569. 408
16.59 17.64	Packwackamus Falls, on right bank, opposite middle of lower pitch, 60 feet from lower end of carry, on bowlder Packwackamus Deadwater, head of, on right bank, about 200 feet below cottage of	{	534. 432 534. 056 531. 569
18.95	Packwackamus Deadwater, foot of, 0.72 mile above head of Debsconeag Falls on	\	530. 577 533. 721
19.94	large rock in middle of main channel. Debsconeag Falls, rock on right bank below falls, above high water, on largest granite rock; mark (Great Northern Paper Company's bench mark No. 5)	l I	533. 326 513. 910
19.94	top of largest granite rock; aluminum tablet set horizontally (permanent bench		
20.82	mark No. 5). Debsconeag Deadwater, head of, on two large bowlders, 5 feet apart, left shore, 75 feet north of landing at Joe Frances's ice house	ſ	513. 858 503. 705 502. 783
22.53	Debsconeag Deadwater, foot of, on island 400 feet above Hopkins Pitch, on right bank of main channel, on two large bowlders 6 feet apart. Passamagormue Falls, head of, at upper end of short carry, left shore, 180 feet	1	502. 287 502. 060
23.19	Passamagormuc Falls, head of, at upper end of short carry, left shore, 180 feet	Į	499. 549
23. 40	Passamagormue Falls, foot of, on rock at putting-in place. Joe Cripp's camp, left bank in cove; cross on tree marked "TP elevation 488.733" (supposed to be		499.648
24.36	Great Northern Paper Company's bench mark No. 3) Dead water between Passamagormuc and Ambajejus Falls, on left bank, 300 feet above first island above Ambajejus Falls on large rook	{	491.055 491.679 491.933
25.23	above first island above Ambajejus Falls, on large rock. Ambajejus Falls, on right shore, at top of ridge, in rock; iron pin (Great Northern Paper Company's bench mark No. 2).		514. 459
25.39	Ambajejus Falls, above road at side of bluff between foot of falls and McPhetres Camp, on right bank, at head of Lake Ambajejus, in top of granite bowlder; aluminum tablet set horizontally (permanent bench mark No. 6).		496. 608
25. 39	Ambajejus Falls, near water's edge opposite bench mark No. 6, on large bowlder	{	483. 982 482. 622
	North Twin Lake; Great Northern Paper Company's bench mark, elevation 503.480. Norcross Cove: on bowlder near old boat landing: Great Northern Paper Com-		503.42
•••••••	Norcross Cove; on bowlder near old boat landing; Great Northern Paper Company's bench mark, elevation 488.661. North Twin Lake (4.87 miles southwest of Millinocket), top of north pier at 24-		488.568
	foot gate opening; aluminum tablet stamped "495"		494. 5 62

Primary leveling by the water-resources branch in several unnamed quadrangles—Cont'd.

FROM ALLAGASH LAKE TO GRAND LAKE DAM.

[Distances in miles from Chesuncook.]

5.00	Umbazooksus Stream, beside carry at head of dead water (elevation 937.04 marked	
	on blazed tree); point on rock (bench mark of Great Northern Paper Company).	934. 35
5.00	On same rock, marked "U S G S No. 7;" point "A"	934. 33
5.91	Umbazooksus Stream, on right bank of, at water's edge; rock	939. 13
5.91	On same rock, marked "U S G S No. 6;" point "A"	939. 55
7.16	on blazed tree); point on rock (bench mark of Great Northern Paper Company). On same rock, marked "U S G S No. 7;" point "A". Umbazooksus Stream, on right bank of, at water's edge; rock. On same rock, marked "U S G S No. 6;" point "A". Umbazooksus Lake, 35 feet from shore of, at end of Mud Pond carry; granite rock. On same rock, marked "U S G S No. 5;" point "A". Mud Pond, about 0.8 mile from putting-in place, 5 feet west of Mud Pond carry; rock	946. 37
7.16	On same rock, marked "USGSNo. 5;" point "A"	947.04
8.12	Mud Pond, about 0.8 mile from putting-in place, 5 feet west of Mud Pond carry;	
	rock	994. 18
8.12	rock. On same rock, marked "U S G S No. 4;" point "A" Mud Pond, at putting-in place at end of Mud Pond carry; rock. On same rock, marked "U S G S No. 3;" point "A" Mud Pond, 10 feet below north end of dam at outlet; granite bowlder. On same rock, marked "U S G S No. 2;" point "A" Mud Pond Brook, about 80 feet north of, 60 feet east of logging camp; rock.	994.14
8.87	Mud Pond, at putting-in place at end of Mud Pond carry; rock	961.50
8.87	On same rock, marked "U S G S No. 3;" point "A"	961.47
9.87	Mud Pond, 10 feet below north end of dam at outlet; granite bowlder	958. 64
9.87	On same rock, marked "U S G S No. 2;" point "A"	958. 37
10.05	Mud Pond Brook, about 80 feet north of, 60 feet east of logging camp; rock	953. 80
10.05	On same rock, marked "US GS No. 1;" point "A". Mud Pond Brook, 600 feet north of foot of quick water, 150 feet east of edge of woods, on top of outcropping ledge (at high water this ledge is entirely sur-	953. 62
10.45	Mud Pond Brook, 600 feet north of foot of quick water, 150 feet east of edge of	
	woods, on top of outcropping ledge (at high water this ledge is entirely sur-	
	rounded by several feet of water): aluminum tablet	946. 23
23.56	rounded by several feet of water); aluminum tablet	010.40
20.00	about 3 by 5 feet: aluminum tablet.	967.10
24.45	about 3 by 5 feet; aluminum tablet	001110
24. 10	laborate the company of the first block of the carry sounded to so and we seem	899.46
04.45	lakes, in turn around; rock. On same rock, marked "U S G S No. 13;" point "A" Webster Brook, 80 feet upstream from upper end of carry, in edge of lake (covered	
24. 45 26. 48	Wishing Prock 90 feet unstream from the control of	899.82
20.40	in time of blob weets upstream from upper end of carry, in edge of take (covered	005 05
00.40	On commence of High water); rock.	895. 87
26.48	On same rock, marked "O S G S No. 14;" point "A"	895.71
28.63	Webster Brook carry, 1.15 miles from upper end and 2 feet south of; rock	917.04
28.63	in time of high water); rock. On same rock, marked "U S G S No. 14;" point "A" Webster Brook carry, 1.15 miles from upper end and 2 feet south of; rock. On same rock, marked "U S G S No. 15;" point "A" Webster Brook carry, 2 miles from upper end and 2 feet south of; rock. On same rock, marked "U S G S No. 16;" point "A" Webster Brook carry, 3.25 miles from upper end and south of, beside blazed and marked free rock.	917.00
29.48	webster Brook carry, 2 miles from upper end and 2 feet south of; rock	831.43
29.48	On same rock, marked "U S G S No. 16;" point "A"	830. 98
30.73	Webster Brook carry, 3.25 miles from upper end and south of, beside blazed and	000 0
	marked tree; rock.	800. 84
30.73	On same rock, marked "USGSNo. 17;" point "A" Indian Pitch, on south bank of Webster Brook, 200 feet upstream from dam, about 10 feet higher than surrounding country and 20 feet from water in brook, in outerpring ledge, always to be the same and the same as	801.10
33.36	Indian Pitch, on south bank of Webster Brook, 200 feet upstream from dam,	•
	about 10 feet higher than surrounding country and 20 feet from water in brook,	
	in outcropping ledge; aluminum tablet	790. 38
34.73	Webster Brook carry, 10 feet south of, 1.25 miles below dam at Indian Pitch, in	
	root of pine tree; nail	781.58
34.73	On root of same tree, marked "U S G S No. 18;" point "A"	781. 25
36.12	Second Lake, near head of, in west end of an outcropping ledge about 3 feet above	
	root of pine tree; nail. On root of same tree, marked "U S G S No. 18;" point "A" Second Lake, near head of, in west end of an outcropping ledge about 3 feet above the general surface of ground (ledge gradually rises toward the east, reaching a	
	the general surface of ground (ledge gradually rises toward the east, reaching a maximum height of about 35 feet); aluminum tablet. Grand Lake, shore of, near Harveys Landing, with chiseled letters and painted white circle around hemispherical head, set flush in ledge; iron bolt marked	661.09
42.56	Grand Lake, shore of, near Harveys Landing, with chiseled letters and painted	
	white circle around hemispherical head, set flush in ledge; iron bolt marked	
	"U () S"	656, 11
45.21	Grand Lake dam, 200 feet upstream from west end of, 10 feet from water's edge	
	when gage at dam reads 13.5 feet, in outcropping ledge; aluminum tablet	662.07
		
	CHAMBERLAIN LAKE NORTHWEST TO ALLAGASH LAKE.	
9.60	Allagash Stream, 2 miles below Allagash Falls, in "tote" road near foot of quick	
	water: rock 21 feet broad and 1 foot high	945.76
9.60	Allagash Stream, 2 miles below Allagash Falls, in "tote" road near foot of quick water; rock 2½ feet broad and 1 foot high. On same rock, marked "U S G S No. 13;" point "A"	945. 67
10.60	Allagash Stream, 1 mile below Allagash Falls, 2 feet south of "tote" road: rock	960.03
10.60	Allagash Stream, 1 mile below Allagash Falls, 2 feet south of "tote" road; rock On same rock, marked "U S G S No. 11;" point "A"	959. 47
11.60	Allagash Stream, at falls, on left bank of stream, 10 feet below wing dam; rock	000. 2
	ledge.	987. 55
11.60	ledge. On ledge near above, marked "USGSNo. 10;" point "A". Allagash Stream, left bank of, 2 miles below dam at Allagash Lake; large broken bowlder in water's edge.	987. 49
12.95	Allagash Stream, left bank of, 2 miles below dam at Allagash Lake: large broken	
	bowlder in water's edge	992, 34
	Un same bowlder marked "U.S.G.S.No. 9-" point "A"	992. 20
12.95		
12.95 14.25	Allagash Stream left bank of about 0.8 mile from dam at Allagash Lake, flat rock	1 (015 34
14.25		1,015.34
14. 25 14. 25	On same rock, marked "U S G S No. 8;" point "A"	1,015.34 1,014.90
14.25	On same rock, marked "U S G S No. 8;" point "A"	1,015.34 1,014.96
14. 25 14. 25	On same rock, marked "U S G S No. 8;" point "A"	1,015.34 1,014.96

Primary leveling by the water-resources branch in several unnamed quadrangles—Cont'd. FROM GRAND LAKE DAM, SOUTHEAST DOWN EAST BRANCH PENOBSCOT RIVER, TO

5.82	Stair Falls, at head of lower pitch on right bank, on outcropping ledge 5 to 10 feet	FOF 80
10.66	from edge of water; aluminum tablet Bowlin Falls, 40 feet from edge of water, on right bank at head of falls, in ledge;	595. 73
10.00	aluminum tablet	446, 66
14.05	United States fish hatchery, on left bank opposite mouth of Little Spring Brook,	110.00
	in outcropping ledge known as Sufferers Rock; aluminum tablet	401.61
24.60		
	granite bowlder on east side of wagon road on left bank of river, about 25 feet	250.55
27.40	from water's edge; aluminum tablet	352. 55
21.10	150 feet above lower end of carry; rock ledge.	339, 95
33.06	Soldiers Brook, 300 feet above mouth, on right bank, in granite bowlder about 25	000111
	feet from mean low water edge; aluminum tablet	314. 92
38.25	Grindstone, in north end of coping stone on east pier of Bangor and Aroostook	
45. 59	Railroad bridge, left bank of river; aluminum tablet.	317. 15
45. 59	Ledge Falls, in large flat-topped bowlder, 10 feet east of highway; tablet (not quite horizontal, elevation of highest point, not center)	285, 90
48. 11	Medway, 0.27 mile west of, 50 feet east of road, 120 feet west of house of A. T. Reed,	200.00
	in ledge; aluminum tablet stamped "279"	278.91

NEW HAMPSHIRE.

PRECISE LEVELING.

Benton, Campton, Ossipee, Rumney, Silver Lake, Squam Lake, Winnepesaukee, and Woodsville quadrangles.

BELKNAP, CARROLL, AND GRAFTON COUNTIES.

The elevations in the following list are the New Hampshire portion of the results of the line of precise levels run in 1906 by N. A. Campbell from Portland, Me., northwest along the Maine Central Railroad and highways to the Maine-New Hampshire state line; thence across the State of New Hampshire, via Lake Winnepesaukee and South Newbury, Vt., to White River Junction, Vt., where a check was obtained on a bench mark whose elevation was determined by checked primary levels from a tidal bench mark near Portsmouth, N. H. At White River Junction the elevation of the tablet in the wall of the Catholic Church by precise line from Portland, Me., was 367.777 feet, and by double-primary line from Portsmouth, N. H., 367.022 feet, the weighted mean value adopted being 367.527 feet. The error, 0.250 foot, was distributed over the New Hampshire-Vermont portion.

SILVER LAKE QUADRANGLE.

MAINE-NEW HAMPSHIRE STATE LINE NEAR FREEDOM, NORTHWEST ALONG HIGHWAY TO FREE-DOM; THENCE SOUTHWEST TO CENTERVILLE.

East Freedom, in an angle of road forks, in rock; aluminum tablet stamped "406"	Feet. 405. 954
Freedom, 640 feet from post-office, 50 feet west of road, in rock; aluminum	
tablet stamped "452"	451.624
Effingham Falls, 2.2 miles west of, south side of road, in rock; aluminum	
tablet stamped "433"	433.057
Centerville, first road northeast of and 300 feet from station; 10 feet from	
road; aluminum tablet stamped "529"	528.710

OSSIPEE QUADRANGLE.

CENTERVILLE, SOUTH ALONG HIGHWAY TO OSSIPEE; THENCE SOUTHWEST TO WOLFBORO.	
Centerville, 3.9 miles southeast of, northeast side of track, 100 feet south of third-class road; aluminum tablet stamped "598"	Feet. 597. 451
· tablet stamped "852"	.852. 275
tablet stamped "660"	660. 116
per day)	504. 071
WINNEPESAUKEE QUADRANGLE.	
AT MEREDITH.	
Meredith; 6-foot mark on gage at wharf	507. 031 548. 884
•	010.001
SQUAM LAKE QUADRANGLE.	
MEREDITH, NORTHWEST ALONG BOSTON AND MAINE RAILROAD, TO PLYMOUTH.	
Meredith, in front of station; top of rail. Waukawan Lake; surface of water. Meredith, 3 miles northwest of, 25 feet west of track; aluminum tablet	547. 9 539. 0
stamped "562"	561. 710
tablet stamped "597"	596. 811 556. 6
Bridgewater, in front of station; top of rail. Bridgewater, 0.4 mile northwest of, west of track, in rock; aluminum tablet	490. 0
stamped "486"	485. 749 483. 8
Plymouth, at station, north entrance to baggage room, in stone step; aluminum tablet stamped "485"	485. 127
CAMPTON QUADRANGLE.	
PLYMOUTH, NORTHWEST 2.6 MILES ALONG BOSTON AND MAINE RAILROAD.	
Plymouth, 0.3 mile northwest of, north of track; switch-stand bolt	493, 27
RUMNEY QUADRANGLE.	100. 21
NEAR PLYMOUTH, ALONG BOSTON AND MAINE RAILROAD, WEST TO WEST RUMNEY AND NORTH TO WARREN SUMMIT.	
Plymouth, 3.7 miles northwest of, on northeast side of track, in top of culvert; aluminum tablet stamped "480"	479. 718
Quincy, in front of station; top of rail	514. 7
way bridge; aluminum tablet stamped "511"	510. 430
Rumney, in front of station; top of rail. Rumney, 1 mile northwest of, on south abutment of arch railroad culvert;	526. 9
aluminum tablet stamped "527"	526. 718 526. 7
West Rumney, 1.2 miles northwest of, 140 feet east of track, in ledge; aluminum tablet stamped "540"	539. 353

West Rumney, 4.9 miles northwest of, 25 feet east of track, 100 feet northwest of bridge, in field, in ledge; aluminum tablet stamped "574" Wentworth, in front of station; top of rail	Feet. 572, 850 597, 8
tablet stamped "688"	686. 860
Wentworth, 2.9 miles northwest of, road crossing; top of rail	707. 2
stamped "847"	846, 750
'Warren, 4.4 miles northwest of, in rock cut, west of track, in ledge; alumi-	
num tablet stamped "1068". Glencliff (Warren Summit post-office), in front of station; top of rail	1,067.368
Grenchii (warren Summit post-onice), in front of station; top of rail	1,043.5
BENTON QUADRANGLE.	
point 3.4 miles northwest of glencliff, along boston and maine railroad to point 1.4 miles northwest of east haverhill.	
Glencliff, 3.4 miles northwest of, northeast of track, in bowlder; aluminum tablet stamped "832"	831. 450 785. 4
East Haverhill, 1.4 miles northwest of, culvert 87; aluminum tablet	
stamped "751"	750. 470
WOODSVILLE QUADRANGLE.	
point 1.4 miles northwest of east haverhill, along boston and maine railroad, to haverhill. $^{\circ}$	
Pike, in front of Boston and Maine Railroad station; top of rail	749. 7
tablet stamped "565"	564. 390

PRIMARY LEVELING.

Boscawen, Squam Lake, and Winnepesaukee quadrangles.

BELKNAP, CARROLL, AND GRAFTON COUNTIES.

The elevations in the following list depend on water surface of Lake Winnepesaukee as determined by the precise-level line run with a prism level by N. A. Campbell and party from Portland, Me., in 1906. During August, 1906, gages were established at Wolfboro and Meredith, and observations were taken until September, thereby obtaining a close approximation of the daily water level.

WINNEPESAUKEE QUADRANGLE.

NEAR LAKE WINNEPESAUKEE.

Melvin, 100 feet north of main road, east of first road to north going west	Feet.
from post-office, in rock; aluminum tablet stamped "522"	520. 204
Moultonboro, at road fork northeast of post-office, in rock beside road;	
aluminum tablet stamped "597"	597. 176
Center Harbor, northwest of lake, in lot back of Moulton, 260 feet from	
street, in rock; aluminum tablet stamped "567"	567.393
Lakeview, 1.5 miles east of stone entrance to Kona farm, north of road, 15	
feet from stone wall, in rock in field; aluminum tablet stamped "558"	557.647
The Weirs, at northwest end of harbor, in front of northwest end of Weirs	
Hotel, 100 feet from water's edge and 100 feet north of track, in rock;	
aluminum tablet stamped "520"	520.370

Lakeport, about 1,200 feet northeast of station, 50 feet west of Lakeshore Railroad, in rock; aluminum tablet stamped "507"	Feet. 506. 428 508. 072 569. 953 517. 919
way to Laconia, 5 feet from creek, in rock; aluminum tablet stamped "730"	729. 717
LAKEPORT, ALONG HIGHWAY, TO LACONIA.	
Lakeport, in front of station; top of rail	509. 8
Laconia, Masonic Temple, on right side of main entrance between pillar and wall of entry; aluminum tablet stamped "503"	502. 768 504. 3
BOSCAWEN QUADRANGLE.	
LACONIA TO SANBORNTON.	
Laconia, 2.8 miles southwest of, southeast of track, in rock; aluminum tablet stamped "499"	499. 578 490. 9
aluminum tablet stamped "545"	544. 444
dwelling house, in rock; aluminum tablet stamped "824"	822. 283
COHAM LAKE OWARDANGLE	
SQUAM LAKE QUADRANGLE.	
AT MEREDITH CENTER.	
·	481. 302 525. 106
AT MEREDITH CENTER. Great Bay, September 10, 1906; surface of water	
AT MEREDITH CENTER. Great Bay, September 10, 1906; surface of water. Meredith Center, in front of church, in rock; aluminum tablet stamped "525" AT GAZA. Gaza, 75 feet southwest of post-office, south of east-west road, in rock; aluminum tablet stamped "525"	525. 106
AT MEREDITH CENTER. Great Bay, September 10, 1906; surface of water. Meredith Center, in front of church, in rock; aluminum tablet stamped "525". AT GAZA. Gaza, 75 feet southwest of post-office, south of east-west road, in rock; aluminum tablet stamped "708".	
AT MEREDITH CENTER. Great Bay, September 10, 1906; surface of water. Meredith Center, in front of church, in rock; aluminum tablet stamped "525" AT GAZA. Gaza, 75 feet southwest of post-office, south of east-west road, in rock; aluminum tablet stamped "525"	525. 106
AT MEREDITH CENTER. Great Bay, September 10, 1906; surface of water. Meredith Center, in front of church, in rock; aluminum tablet stamped "525". AT GAZA. Gaza, 75 feet southwest of post-office, south of east-west road, in rock; aluminum tablet stamped "708". HILL, ALONG BOSTON AND MAINE RAILBOAD, TO BRISTOL; THENCE ALONG HIGHWAY, TO BRIDGEWATER STATION. Hill, in front of station; top of rail.	525. 106 706. 702
AT MEREDITH CENTER. Great Bay, September 10, 1906; surface of water. Meredith Center, in front of church, in rock; aluminum tablet stamped "525". AT GAZA. Gaza, 75 feet southwest of post-office, south of east-west road, in rock; aluminum tablet stamped "708". HILL, ALONG BOSTON AND MAINE RAILROAD, TO BRISTOL; THENCE ALONG HIGHWAY, TO BRIDGEWATER STATION. Hill, in front of station; top of rail. Hill, at Hill Center-Danbury road forks, west of road to Hill, north of road to Hill Center, in rock; aluminum tablet stamped "348".	525. 106 706. 702
AT MEREDITH CENTER. Great Bay, September 10, 1906; surface of water. Meredith Center, in front of church, in rock; aluminum tablet stamped "525". AT GAZA. Gaza, 75 feet southwest of post-office, south of east-west road, in rock; aluminum tablet stamped "708". HILL, ALONG BOSTON AND MAINE RAILROAD, TO BRISTOL; THENCE ALONG HIGHWAY, TO BRIDGEWATER STATION. Hill, in front of station; top of rail. Hill, at Hill Center-Danbury road forks, west of road to Hill, north of road to Hill Center, in rock; aluminum tablet stamped "348". Hill, 2.8 miles northwest of, northeast of track, in bowlder 12 feet above	525. 106 706. 702
Great Bay, September 10, 1906; surface of water. Meredith Center, in front of church, in rock; aluminum tablet stamped "525". AT GAZA. Gaza, 75 feet southwest of post-office, south of east-west road, in rock; aluminum tablet stamped "708". HILL, ALONG BOSTON AND MAINE RAILROAD, TO BRISTOL; THENCE ALONG HIGHWAY, TO BRIDGEWATER STATION. Hill, in front of station; top of rail. Hill, at Hill Center-Danbury road forks, west of road to Hill, north of road to Hill Center, in rock; aluminum tablet stamped "348". Hill, 2.8 miles northwest of, northeast of track, in bowlder 12 feet above level of track; aluminum tablet stamped "344". Bristol, in front of station; top of rail.	525. 106 706. 702 326. 5 347. 011
Great Bay, September 10, 1906; surface of water. Meredith Center, in front of church, in rock; aluminum tablet stamped "525". AT GAZA. Gaza, 75 feet southwest of post-office, south of east-west road, in rock; aluminum tablet stamped "708". HILL, ALONG BOSTON AND MAINE RAILROAD, TO BRISTOL; THENCE ALONG HIGHWAY, TO BRIDGEWATER STATION. Hill, in front of station; top of rail. Hill, at Hill Center-Danbury road forks, west of road to Hill, north of road to Hill Center, in rock; aluminum tablet stamped "348". Hill, 2.8 miles northwest of, northeast of track, in bowlder 12 feet above level of track; aluminum tablet stamped "344". Bristol, in front of station; top of rail. Bristol, in public square, soldiers' monument, in pedestal; aluminum tablet stamped "467".	525. 106 706. 702 326. 5 347. 011 342. 708
Great Bay, September 10, 1906; surface of water. Meredith Center, in front of church, in rock; aluminum tablet stamped "525". AT GAZA. Gaza, 75 feet southwest of post-office, south of east-west road, in rock; aluminum tablet stamped "708". HILL, ALONG BOSTON AND MAINE RAILROAD, TO BRISTOL; THENCE ALONG HIGHWAY, TO BRIDGEWATER STATION. Hill, in front of station; top of rail. Hill, at Hill Center-Danbury road forks, west of road to Hill, north of road to Hill Center, in rock; aluminum tablet stamped "348". Hill, 2.8 miles northwest of, northeast of track, in bowlder 12 feet above level of track; aluminum tablet stamped "344". Bristol, in front of station; top of rail. Bristol, in public square, soldiers' monument, in pedestal; aluminum tablet stamped "467". New Hampton, in north step of Gordon-Nash Library, in right end of step; aluminum tablet stamped "532" (single spur).	525. 106 706. 702 326. 5 347. 011 342. 708 359. 7
Great Bay, September 10, 1906; surface of water. Meredith Center, in front of church, in rock; aluminum tablet stamped "525". AT GAZA. Gaza, 75 feet southwest of post-office, south of east-west road, in rock; aluminum tablet stamped "708". HILL, ALONG BOSTON AND MAINE RAILROAD, TO BRISTOL; THENCE ALONG HIGHWAY, TO BRIDGEWATER STATION. Hill, in front of station; top of rail. Hill, at Hill Center-Danbury road forks, west of road to Hill, north of road to Hill Center, in rock; aluminum tablet stamped "348". Hill, 2.8 miles northwest of, northeast of track, in bowlder 12 feet above level of track; aluminum tablet stamped "344". Bristol, in front of station; top of rail. Bristol, in public square, soldiers' monument, in pedestal; aluminum tablet stamped "467". New Hampton, in north step of Gordon-Nash Library, in right end of step;	525. 106 706. 702 326. 5 347. 011 342. 708 359. 7 465. 498

ASHLAND, TO SQUAM LAKE (DOUBLE SPUR LINE).

Holderness, at first road fork east of post-office, in rock; aluminum tablet	Feet.
stamped "581"	581. 405
Squam Lake, September 25, 1906; surface of water	559.97

Claremont, Concord, Dover, Hanover, Haverhill, Manchester, Mascony Lake, Milford, Mount Kearsarge, Nottingham, Peterboro, Sunapee, Suncook, and York quadrangles.

CHESHIRE, GRAFTON, HILLSBORO, MERRIMAC, ROCKINGHAM, AND SULLIVAN COUNTIES.

The elevations in the following list are based on the gage bench mark at Portsmouth Harbor of the United States Engineer Corps, and of the Coast and Geodetic Survey, consisting of a copper bolt in solid rock 6 feet from wall of old Fort Constitution, opposite cross cut in wall, 3 feet above ground, 127 feet from a wall at right angles to main wall of old fort, 47.9 feet from gate in main wall. The elevation of this bench mark is accepted as 10.17 feet, as determined by the Coast and Geodetic Survey from 143 readings, each of high and low water, taken between September 11 and November 24, 1898. From this point a double-rodded primary-level line was run over the Boston and Maine Railroad, via Manchester, Concord, and Claremont Junction, to White River Junction, Vt., where it connects with the precise-level line from Portland, Me. Of the total closure error of 0.755 foot, 0.5 foot has been corrected by adjustment between Portsmouth and White River Junction. For additional elevations on Hanover and Claremont quadrangles see Vermont list (p. 46).

The leveling was done as follows: In Peterboro quadrangle, by W. R. Harper in 1897; in Dover, Manchester, Nottingham, Suncook, and York quadrangles by F. M. Goodhue in 1903; in Concord, Milford, Mount Kearsarge, Sunapee, and Suncook quadrangles by A. T. Paine in 1904; and in Claremont, Hanover, and Mascony Lake quadrangles by W. A. Anderson in 1905.

YORK QUADRANGLE.

FORT CONSTITUTION (NEWCASTLE), TO PORTSMOUTH (DOUBLE-RODDED LINE).

Fort Constitution, Newcastle, 6 feet from wall of old fort, opposite cross, 3 feet above ground, cut on wall, 127 feet from a wall at right angles to main wall of old fort, 47.9 feet from gate in main wall, in solid rock; copper bolt 1.75 inches in diameter (Coast and Geodetic Survey and United States Engineer Corps bench mark)......

Feet. 10, 170

DOVER QUADRANGLE.

PORTSMOUTH, WEST ALONG BOSTON AND MAINE RAILROAD, TO HEDDING (DOUBLE-RODDED LINE).

Portsmouth, on street floor of Federal Building, west face of second window from northwest corner, in granite window seat; aluminum tablet stamped "30 CONCORD".....

30.031

Rockingham Junction (town of South Newmarket), 0.1 mile east of, 33 feet east of timber pier of overhead highway bridge, 6 feet south of south rail, 5 feet above ground, in shelf of south face of railroad cut through ledge; aluminum tablet stamped "49 CONCORD"	Feet. 49. 058
NOTTINGHAM QUADRANGLE.	
Hedding, west along boston and maine railroad to candia (double-rodded line).	
Epping, in west face of clock tower, 1 foot from southwest corner of town hall, 18 inches from ground, flush with brickwork; aluminum tablet stamped "129 CONCORD"	128. 688 205. 048
SUNCOOK QUADRANGLE.	
CANDIA, SOUTHWEST ALONG BOSTON AND MAINE RAILROAD, TO MANCHESTER (DOUBLE-RODDED LINE).	
Candia, in south face of granite foundation of town hall, 9 inches from southwest corner, 18 inches above ground; bronze tablet stamped "498 CONCORD".	498. 094
Massabesic, 0.2 mile east of station (town of Auburn), on northwest shore of Great Massabesic Lake, in top of large bowlder, 240 feet from track, 5 feet above water; bronze tablet stamped "255 CONCORD"	255. 450
MANCHESTER, NORTH TO GARVINS FALLS (DOUBLE-RODDED LINE).	
Amoskeag, east side of station, 3.5 feet from ground, in foundation of archway which forms a shed for driveway for carriages, in large rectangular sandstone; aluminum tablet stamped "200 CONCORD"	199. 695 200. 514
Hooksett, just south of station, in north abutment of red iron railroad bridge over Merrimack River, in northeast corner of north abutment, 5 feet west of bed plate; aluminum tablet stamped "194 CONCORD"	194. 452 210. 523
CONCORD QUADRANGLE.	
GARVINS FALLS, NORTHWEST ALONG BOSTON AND MAINE RAILROAD, TO CONTOOCOOK (DOUBLE-RODDED LINE).	
Bow Junction, 150 feet southeast of station, in large bowlder; aluminum tablet stamped "236 CONCORD"	236. 354
aluminum tablet stamped "288 CONCORD". West Concord, 150 feet south of railroad station, at southeast corner of curbing which surrounds the house of Mr. Gray, in large stone; aluminum	287. 885
tablet stamped	348. 687
Mastyard, 1,000 feet west of flag station, in east abutment of wooden rail- road bridge over Contoocook River; aluminum tablet stamped Contoocook, opposite post-office, in northwest corner of public fountain;	365. 736
aluminum tablet stamped "367 CONCORD"	367. 574

MANCHESTER, WEST ALONG BOSTON AND MAINE RAILROAD, TO PARKER.	
Grasmere Junction, 300 feet east of station, 10 feet from track, in ledge; aluminum tablet stamped "257 CONCORD"	Feet. 256. 906
aluminum tablet stamped "306 CONCORD"	306. 007
CONCORD"	.318.420
MANCHESTER QUADRANGLE.	
MANCHESTER, SOUTHEAST TO DERRY; THENCE NORTHEAST TO CHESTER; THENCE WEST TO AUBURN.	
Manchester, at post-office (federal building), in water table of east buttress of west flight of steps from Hanover street; aluminum tablet stamped "225 CONCORD".	224. 839
Manchester, city hall, in steps of main (Elm street) entrance, in north end of second step from street; brass plug 1.5 inches in diameter	209. 588
Manchester, corner West Auburn street and Depot Square, in top of fire hydrant; plug (city engineer's bench mark)	178. 200
Goffs Falls, bridge over large brook through village, in east end, south abutment, 9 inches outside of rail of bridge, in granite top course; chisel mark.	148. 834
Derry, in west abutment of steps of Pinkerton Academy; bronze tablet stamped "344 CONCORD" (on short single spur line)	344. 430
CORD"	459. 736 361. 367
WEST DERRY, ALONG RAILROAD SOUTHEAST TO WINDHAM DEPOT; THENCE SOUTHWEST TO NASHUA; THENCE NORTH TO GOFFS FALLS.	001.001
West Derry, in granite foundation of hook-and-ladder house, north face, 1 foot from northeast corner, 9 inches from ground; aluminum tablet	000 000
stamped "280 CONCORD" Windham Depot (town of Windham), east side of Worcester, Nashua and Portland track, 400 feet southwest of west crossing of Manchester and Lawrence track (both roads operated by Boston and Maine Railroad), 10 feet from and 4 feet above east rail, in projecting ledge; aluminum	280. 393
tablet stamped "327 CONCORD"	326. 922
aluminum tablet stamped "168 CONCORD". Merrimack, north of, 0.3 mile north of Reeds Ferry station, east of tracks, at milepost 48, in top of large bowlder; bronze tablet stamped "133 CON-	168. 747
CORD"	132. 629
Windham Depot, South to canobie lake (single spur line).	
Windham Depot, 4 miles south of (town of Windham), between north ends of Canobie Lake and Cobbett pond, 45 feet from road, in yard at School No. 1, 45 feet from southeast corner of schoolhouse, in ledge; bronze	
tablet stamped "270 CONCORD"	269.763

MILFORD QUADRANGLE.

NASHUA, ALONG BOSTON AND MAINE RAILROAD, TO WILTON.

NASHUA, ALONG BOSTON AND MAINE RAILROAD, TO WILTON.	
South Merrimack, 250 feet from Milford-Amherst road forks, midway between Dean and Miller cottages, 16 feet north of center of road, in ledge-bronze tablet stamped "214 CONCORD". Milford, in front of station; top of rail. Milford, Unitarian Church, north side, in front base of buttress at portal, 1 foot above ground; bronze tablet stamped "271 CONCORD". Richardson, crossing at station; top of rail. Wilton, 1.5 miles east of, 70 feet north of Jones crossing, on top of south abutment of highway bridge over Souhegan River; aluminum tablet stamped "285 CONCORD".	Feet. 214, 306 250, 3 270, 831 261, 3 284, 950
MILFORD, ALONG AMHERST-NEW BOSTON ROAD, TO PARKER.	•
Amherst, in foundation of public library, northwest corner, front side of building; aluminum tablet stamped "269 CONCORD"	268. 068 489. 954
Amherst, 6 miles from, on Amherst-New Boston road, 0.2 mile south of	
four corners, 0.8 mile north of road to Mount Vernon, in bowlder; aluminum tablet stamped "684 CONCORD"	684. 216
Presbyterian Church; aluminum tablet stamped "418 CONCORD"	418.294
AMHERST, ALONG BOSTON AND MAINE RAILROAD VIA BEDFORD, TO GRASMERE JUNCTION.	a.
Baboosic, 50 feet northwest of station, in ledge; aluminum tablet stamped "242 CONCORD"	241. 785
Church; aluminum tablet stamped "325 CONCORD"	324. 931
MILFORD, SOUTH ALONG BOSTON AND MAINE RAILROAD TO NORTH BROOKLINE (SPUR LINE).	•
North Brookline, 289 yards south of road forks, in ledge of rock; aluminum	• .
tablet stamped "302 CONCORD"	301. 934
PETERBORO QUADRANGLE.	•
PETERBORO, ALONG BOSTON AND MAINE RAILROAD, TO ELMWOOD.	
Nahors, 243 feet south of crossing, east of railroad and public road, in granite bowlder; copper bolt stamped "691"	689. 881
Hillsboro branches of Boston and Maine Railroad; top of rail Elmwood, 60 feet west of station, in side of triangle formed by tracks, in	688. 1
granite bowlder; copper bolt stamped "692 P"	690.784
ELMWOOD, ALONG BOSTON AND MAINE RAILROAD, TO EAST WILTON.	
South Bennington, in front of station; top of rail	709. 7
Greenfield, in front of station; top of rail.	825. 6
Russell, road crossing at station; top of rail	846. 5
Russell, 1,200 feet south of station, 120 feet north of crossing near school-house, in granite capstone at west side of culvert over brook; copper bolt	
stamped "838 P".	836. 693

EAST WILTON, VIA WILTON CENTER AND PACK MONADNOCK, TO PETERBORO.	
Wilton Center, 0.3 mile south of, near Livermore's sawmill, 60 feet west of road to Wilton Center, 90 feet west of bridge over stream past sawmill, in ledge east of road; copper bolt stamped "540 P"	Feet. 538. 088
peterboro, along fitchburg railroad, to point 1 mile north of cheshire mills; thence to wilder.	
Peterboro, in front of Fitchburg Railroad station; top of rail	722. 5
porting porch of entrance to town hall; bronze tablet stamped "744 P"	742. 990
Noone, road crossing north of station; top of rail	765. 9 810. 1
Hadley, at road crossing north of station; top of rail	895. 0
bowlder in field; copper bolt stamped "1185 P"	1, 185. 730
WILDER, VIA HIGH BRIDGE, TO EAST WILTON.	
New Ipswich, post-office and store, northeast corner of lower step at east entrance	977. 37
High Bridge, 150 feet south of mill, on Boston-Keene road, stone bridge over Souhegan River; roadway	920. 5
Greenville, town hall, in west face of granite foundation stone, 1 foot north of southwest corner of building, 2.5 feet above pavement; bronze tablet	920. 5
stamped "831 P"	829. 148
MOUNT KEARSARGE QUADRANGLE.	
CONTOOCOOK, WEST ALONG BOSTON AND MAINE RAILROAD, TO BRADFORD (DOUBLE-RODDED LINE).	
Dimond, 600 feet north of flag station, 50 feet west of main road, in large	
bowlder; aluminum tablet stamped "421 CONCORD"	421.399
Warner, road crossing near station; top of rail	411. 0
Warner, on southwest side of Pillsbury Free Library building, at top of stairs, in large rectangular stone; aluminum tablet	445. 437
Roby, 280 feet east of flag station, 50 feet south of track, in large bowlder;	110. 107
aluminum tablet stamped "518 CONCORD"	518.733
Bradford, 400 feet west of station, north of track, in large bowlder; alumi-	
num tablet stamped "684 CONCORD"	684. 268
SUNAPEE QUADRANGLE.	
BRADFORD, NORTHWEST ALONG BOSTON AND MAINE RAILROAD, TO KELLYVILLE (DOUBLE-RODDED LINE).	
Morse's crossing, 600 feet northwest of, 2 miles southeast of Newbury station,	
in large bowlder; aluminum tablet stamped	
Sunapee Lake, at Newbury, on October 14, 1904; surface of water Mount Sunapee, 75 feet east of station, in large flat bowlder; aluminum	
tablet stamped "1125 CONCORD"	
Sunapee, 800 feet northwest of station, at foundation of stone culvert over brook, in large granite stone; aluminum tablet stamped "927	1, 110. 11
CONCORD"	927. 806
Newport, at south corner of front steps of town hall; aluminum tablet stamped	816. 040
Kelleyville, 500 feet northeast of flag station, 75 feet north of track, in small bowlder; aluminum tablet stamped "687 CONCORD"	686. 937

NEWPORT, SOUTH ALONG HIGHWAYS TO UNITY; THENCE EAST TO GOSHEN; THENCE NORTH TO MOUNT SUNAPEE.

Newport, 5.4 miles south of, 10 feet north of road at East Unity, 50 feet east of crossroads, in top of ledge; aluminum tablet stamped "1200 ADJ" East Unity, 3.9 miles southeast of, 100 feet from crossroads, on top of small	1, 200. 391
stone post; point	
Goshen, 5.3 miles north of, near road forks south and east, in southwest corner of red brick house of Joseph Snow; aluminum tablet stamped "1408	
ADJ"	1, 407. 903
NEWBURY, NORTH ALONG HIGHWAYS TO GEORGES MILLS; THENCE WEST TO CROYDON; THENCE SOUTH TO NORTHVILLE.	
Newbury, 3.2 miles north of, at Farmers Corners crossroads, 10 feet north of road, in small bowlder; aluminum tablet stamped "1293 ADJ"	1, 292. 870
Newbury, 5.9 miles north of, 10 feet from center of crossroads at Goings	
Corners, in bowlder; aluminum tablet stamped "1193 ADJ"	1, 195. 262
north of road, in small bowlder; aluminum tablet stamped "1133 ADJ". Georges Mills, 3.7 miles north of, junction of roads west and south called	1, 133. 546
Osborns Corners, 6 feet north of west road, in bowlder; aluminum tablet stamped "1148 ADJ"	1, 148. 662
Croydon, junction of roads south and east, opposite Gilman's store, 12 feet north of Mr. Sargent's house, in small bowlder; aluminum tablet stamped	
"912 ADJ"	912, 591
Croydon Flat, 20 feet north of road, 150 feet west of crossroads, in bowlder; aluminum tablet stamped "806 ADJ"	806. 042
CLAREMONT QUADRANGLE.	
CLAREMONT QUADRANGLE. KELLEYVILLE, WEST AND NORTH ALONG BOSTON AND MAINE RAILROAD, VIA CLAREMONT JUNCTION, TO WINDSOR, VT. (DOUBLE-RODDED LINE).	
KELLEYVILLE, WEST AND NORTH ALONG BOSTON AND MAINE RAILROAD, VIA CLAREMONT JUNCTION, TO WINDSOR, VT. (DOUBLE-RODDED LINE). Claremont, 2.1 miles west of Chandler flag station, 75 feet north of track, on property of Dennis Cutting, in top of bowlder; aluminum tablet stamped	
KELLEYVILLE, WEST AND NORTH ALONG BOSTON AND MAINE RAILROAD, VIA CLAREMONT JUNCTION, TO WINDSOR, VT. (DOUBLE-RODDED LINE). Claremont, 2.1 miles west of Chandler flag station, 75 feet north of track, on property of Dennis Cutting, in top of bowlder; aluminum tablet stamped "566 ADJ"	566. 309
KELLEYVILLE, WEST AND NORTH ALONG BOSTON AND MAINE RAILROAD, VIA CLAREMONT JUNCTION, TO WINDSOR, VT. (DOUBLE-RODDED LINE). Claremont, 2.1 miles west of Chandler flag station, 75 feet north of track, on property of Dennis Cutting, in top of bowlder; aluminum tablet stamped "566 ADJ".	566. 309 560. 881
KELLEYVILLE, WEST AND NORTH ALONG BOSTON AND MAINE RAILROAD, VIA CLAREMONT JUNCTION, TO WINDSOR, VT. (DOUBLE-RODDED LINE). Claremont, 2.1 miles west of Chandler flag station, 75 feet north of track, on property of Dennis Cutting, in top of bowlder; aluminum tablet stamped "566 ADJ"	560. 881
KELLEYVILLE, WEST AND NORTH ALONG BOSTON AND MAINE RAILROAD, VIA CLAREMONT JUNCTION, TO WINDSOR, VT. (DOUBLE-RODDED LINE). Claremont, 2.1 miles west of Chandler flag station, 75 feet north of track, on property of Dennis Cutting, in top of bowlder; aluminum tablet stamped "566 ADJ". Claremont, in west entrance of town hall, in southeast corner of top step; aluminum tablet stamped "560 ADJ". Claremont Junction, 400 feet north of station, 10 feet east of tracks, in top of milepost "W. R. Jc. 22" (one side) and "S 101" (other side); aluminum tablet stamped "478 ADJ". Claremont, 0.25 mile south of town line of Cornish, 0.7 mile south of Balloch	
KELLEYVILLE, WEST AND NORTH ALONG BOSTON AND MAINE RAILROAD, VIA CLAREMONT JUNCTION, TO WINDSOR, VT. (DOUBLE-RODDED LINE). Claremont, 2.1 miles west of Chandler flag station, 75 feet north of track, on property of Dennis Cutting, in top of bowlder; aluminum tablet stamped "566 ADJ"	560. 881
KELLEYVILLE, WEST AND NORTH ALONG BOSTON AND MAINE RAILROAD, VIA CLAREMONT JUNCTION, TO WINDSOR, VT. (DOUBLE-RODDED LINE). Claremont, 2.1 miles west of Chandler flag station, 75 feet north of track, on property of Dennis Cutting, in top of bowlder; aluminum tablet stamped "566 ADJ"	560. 881 478. 221
Claremont, 2.1 miles west of Chandler flag station, 75 feet north of track, on property of Dennis Cutting, in top of bowlder; aluminum tablet stamped "566 ADJ"	560. 881 478. 221
Claremont, 2.1 miles west of Chandler flag station, 75 feet north of track, on property of Dennis Cutting, in top of bowlder; aluminum tablet stamped "566 ADJ"	560. 881 478. 221 367. 936
Claremont, 2.1 miles west of Chandler flag station, 75 feet north of track, on property of Dennis Cutting, in top of bowlder; aluminum tablet stamped "566 ADJ"	560. 881 478. 221

Lebanon, at main entrance to town hall, in top of rectangular block of stone; aluminum tablet stamped "594 ADJ"	Feet. 594. 193
NORTH HARTLAND, SOUTHEAST ALONG HIGHWAYS TO MERIDEN; THENCE WEST TO PLAINFIELD; THENCE SOUTH TO WINDSOR.	
 Meriden, 2.8 miles northwest of, at Pratts Corners, 30 feet northwest of J. L. Pratt's house, in top of small bowlder; aluminum tablet stamped "652 ADJ". Meriden, 100 feet east of Asa Walker's house, 15 feet north of main road, in top of large ledge; aluminum tablet stamped "925 ADJ". Meriden, 2.5 miles west of, on Meriden-Plainfield stage road, at junction of road south and west, 340 feet east of D. F. Morgan's house; 50 feet north of road, 10 feet south of large maple, in ledge; aluminum tablet stamped "800 ADJ". Plainfield, in front wall of Baptist Church, 1 foot from southeast corner; aluminum tablet stamped "528 ADJ". 	652. 851 925. 407 801. 038 528. 248
MASCONY LAKE QUADRANGLE.	
HANOVER, EAST ALONG HIGHWAY TO ETNA; THENCE SOUTH TO LEBANON; THENCE ALONG BOSTON AND MAINE RAILROAD TO WHITE RIVER JUNCTION.	
Etna, 35 feet north of road, 20 feet west of E. C. Wright's house, in top of small bowlder; aluminum tablet stamped "782 ADJ"	782. 080 652. 470
Whitefield quadrangle.	,
COOS AND GRAFTON COUNTIES.	
The elevations in the following list, republished from the teenth Annual Report, are based on a bronze tablet set in the face of stone foundation of McKean Block, Whitefield, face public square, marked "W 952", which in turn is based on	he west
of rail in front of center of Boston and Maine Railroad Whitefield, 948 feet. Accordingly the height of the bronze accepted as 952.419 feet. The leveling was done in 1897 by Walter R. Harper.	station,
of rail in front of center of Boston and Maine Railroad Whitefield, 948 feet. Accordingly the height of the bronze taccepted as 952.419 feet.	station, tablet is
of rail in front of center of Boston and Maine Railroad Whitefield, 948 feet. Accordingly the height of the bronze of accepted as 952.419 feet. The leveling was done in 1897 by Walter R. Harper.	station, tablet is Feet. 948.00
of rail in front of center of Boston and Maine Railroad Whitefield, 948 feet. Accordingly the height of the bronze of accepted as 952.419 feet. The leveling was done in 1897 by Walter R. Harper. WHITEFIELD, ALONG BOSTON AND MAINE RAILROAD TO HAZEN JUNCTION. Whitefield, opposite Boston and Maine Railroad station; top of rail	station, tablet is Feet. 948.00
of rail in front of center of Boston and Maine Railroad Whitefield, 948 feet. Accordingly the height of the bronze of accepted as 952.419 feet. The leveling was done in 1897 by Walter R. Harper. Whitefield, along boston and Maine Railroad to hazen junction. Whitefield, opposite Boston and Maine Railroad station; top of rail Hazen Junction; top of rail	station, sablet is Feet. 948.00 1, 036.69
of rail in front of center of Boston and Maine Railroad Whitefield, 948 feet. Accordingly the height of the bronze of accepted as 952.419 feet. The leveling was done in 1897 by Walter R. Harper. Whitefield, along boston and Maine Railroad to hazen junction. Whitefield, opposite Boston and Maine Railroad station; top of rail Hazen Junction, along maine central railroad via quebec junction, to waumbek junction. Hazen Junction; top of rail	station, sablet is Feet. 948.00 1, 036.69

Lancaster, opposite ticket-office window, Maine Central Railroad station; top of rail, main track	Feet. 886. 861.	81
LUNENBERG BRIDGE, TO WHITEFIELD.	•	,
Lancaster, in wall of county court-house, north of entrance; bronze tablet stamped "864 W". Lancaster, 1 mile west of, floor of highway bridge over Connecticut River	863. 848.	
Scott, at junction of tracks of the Maine Central and the Boston and Maine railroads; top of rail	861. 948.	,
WHITEFIELD, ALONG BOSTON AND MAINE RAILROAD, VIA WING ROAD AND BETHLEHEM JUNCTION, TO TWIN MOUNTAIN.		00
Whitefield, McKean Block, in west face of stone foundation at northwest corner of building; bronze tablet stamped "952 W"	952. 950.	
bolt stamped "1005 W"		
"USGSI108 Ft. W.". Twin Mountain, opposite west line of Boston and Maine Railroad station; top of rail.		
TWIN MOUNTAIN, ALONG MAINE CENTRAL RAILROAD, TO QUEBEC JUNCTION.		,.
Twin Mountain, opposite Maine Central station; top of rail		
Maine Central Railroad; copper bolt in large bowlder, stamped "1439 W.".	1, 438.	973

Gorham and Milan quadrangles.

COOS COUNTY.

The elevations in the following list of bench marks established by the water-resources branch of the United States Geological Survey in 1906 under the general direction of H. K. Barrows, district engineer, were determined by a double-rodded line extended from Augusta, Me., to Brunswick, Me., and thence up the Androscoggin River to Errol, N. H., and are based on mean sea-level determined by a gage bench mark at Portland, Me. For a more detailed description of this line see Maine list (p. 7).

The leveling was done in 1906 by C. Robert Adams and T. W. Norcross.

Primary leveling by the water-resources branch extended from Augusta, Me.

FROM LIVERMORE FALLS, ALONG THE PORTLAND AND RUMFORD FALLS AND THE GRAND TRUNK RAILWAYS AND HIGHWAYS UP ANDROSCOGGIN RIVER, TO ERROL.

Dis- tance in miles.	Location and description of bench mark.	Elevation in feet.
	GORHAM QUADRANGLE.	
64.0	Shelburne, 0.25 mile south of, in east corner of north bridge, seat of Grand Trunk Railway bridge over Clement Brook; aluminum tablet.	704, 692
69.8	Gorham station, 0.25 mile below, in north corner of east abutment of Grand Trunk	
71.5	Railway bridge over Peabody River; aluminum tablet	781. 017
73. 1	marked "Ú S G S T B M". Pulsifer Falls, at foot of, 800 feet south of Malloy place, 50 feet west of river, 150 feet	808.703
	north of south line of International Paper Company, on shore, in bowlder: iron pin.	818. 164
75. 1	Cascade mill of the Berlin Mills Company, a few feet south of wasteway leading from log pond, in foundation at northwest corner of red barn on east side of highway;	
	chiseled cross	890. 504
75. 4	Cascade mill of the Berlin Mills Company, 40 feet west of head gatehouse, in ledge; aluminum tablet.	909. 096
76.7	Berlin, southwest corner of International Paper Company's office building on Main	
77.9	street, in concrete foundation; aluminum tablet. New steel bridge on left bank of river, a few feet below the concrete abutment, at Berlin	992. 586
	Mills Company lumber yard; aluminum tablet	1,083.866
	MILAN QUADRANGLE.	
85. 2	Milan, post-office building, 27 feet from southeast corner, in south foundation; alumi-	1
91.0	num tablet	1, 133. 675
	(International Paper Company's bench mark)	1,160.099
94. 5	Dummer-Errol road, south of, on side hill about 250 feet down from house of Howard (the last house before entering the 13-mile woods), in small bowlder partly split by drill: aluminum tablet.	1 101 200
108. 5	Errol dam. 22 feet from gristmill, in ledge: copper bolt.	1,191.382 1,262.724
108. 5	Errol dam, north of road, in highest point on ledge north of gatehouse; aluminum tablet.	1,275.998
	tablet	1,210.990

VERMONT.

PRECISE LEVELING.

Hanover, Thetford, and Woodsville quadrangles.

ORANGE AND WINDSOR COUNTIES.

The elevations in the following list are the Vermont portion of the results of the line of precise levels run in 1906 by N. A. Campbell from Portland, Me., northwest along the Maine Central Railroad and highways to the Maine-New Hampshire state line; thence across the State of New Hampshire via Lake Winnepesaukee to South Newbury, Vt.; thence south along the Boston and Maine Railroad to White River Junction. For additional statement, see New Hampshire list (p. 34).

WOODSVILLE QUADRANGLE.

SOUTH NEWBURY, SOUTH ALONG BOSTON AND MAINE RAILROAD, TO BRADFORD.

South Newbury, 0.8 mile southwest of, in bridge abutment; aluminum	Feet.
tablet stamped "400"	400.152
South Newbury, in front of station; top of rail	407.1
South Newbury, 2.6 miles southwest of, east of track, in rock; aluminum	
tablet stamped "406"	405.716

THETFORD QUADRANGLE.

BRADFORD, SOUTH ALONG BOSTON AND MAINE RAILROAD, TO POMPANOOSUC.

	Feet.
Bradford, in front of station; top of rail	405. 2
Piermont, in front of station; top of rail	430.3
Piermont, 1.5 miles southwest of, east of track, at foot of embankment;	
aluminum tablet stamped "438"	438. 264
Piermont, 3.3 miles southwest of, west of track, in rock ledge; aluminum tablet stamped "441"	440. 500
Fairlee, in front of station; top of rail.	435, 5
Fairlee, 1.6 miles southwest of, west of track, in rock; aluminum tablet	
stamped "414"	413. 635
Ely, in front of station; top of rail.	430.6
North Thetford, in front of station; top of rail	396. 2
North Thetford, 0.1 mile southwest of, in abutment of iron bridge over	000 400
river; aluminum tablet stamped "399"	398. 486
Thetford, in front of station; top of rail	408. 3
Thetford, 1.6 miles southwest of, east of track, edge of right of way; iron post stamped "402"	401, 716
Pompanoosuc, in front of station; top of rail.	392. 1
Pompanoosuc, 0.3 mile southwest of, northwest end of railroad bridge;	002.1
aluminum tablet stamped "392"	392. 259
HANOVER QUADRANGLE.	
pompanoosuc, south along boston and maine railroad, to white river junction.	
Pompanoosuc, 3.25 miles southwest of, 25 feet east of track; iron post stamped "400"	399, 952
Hanover, in front of station; top of rail	402. 6
Hanover, 0.8 mile southwest of, east of track, in rock; aluminum tablet	
stamped "412"	411. 709
Wilder, at side entrance to public library, in top of stone doorsill; aluminum tablet stamped "ADJ 430"	430, 449
Wilder, in front of station; top of rail.	408. 7
White River Junction, on step of Catholic Church	365. 85
White River Junction, on step of Catholic Church; aluminum tablet	200.00
stamped "367"	367. 527

PRIMARY LEVELING.

Claremont and Hanover quadrangles.

WINDSOR COUNTY.

The elevations in the following list were determined by primary leveling extended from and including portions of the double-rodded line of levels begun at Portsmouth, N. H., in 1903 and continued in 1904 and 1905 to West Hartford, Vt. These elevations have been adjusted in conjunction with the precise-level line from Portland, Me., joining this list at White River Junction.

The leveling in Claremont quadrangle and part of Hanover quadrangle was done by W. A. Anderson in 1905. The remainder of the work in Hanover quadrangle was done by G. M. Dimmick in 1906.

CLAREMONT QUADRANGLE.

AT WINDSOR.

Windsor, in west wall of M. E. Church, at corner of South Main and Dursley avenues, 15 feet from corner of building, 2 feet above ground; aluminum tablet stamped "354 ADJ". HANOVER QUADRANGLE.	Feet. 354. 011
WINDSOR, ALONG CENTRAL VERMONT RAILWAY TO WEST HARTFORD (DOUBLE-RODDED LINE).	
Hartland, 250 feet west of track, in road fork near station, in bowlder 15 feet north of road; aluminum tablet stamped "441 ADJ"	
North Hartland, 600 feet west of station, 50 feet north of road, 20 feet east of house, on property of William Walker, in top of small bowlder; aluminum tablet stamped "383 ADJ".	441. 825 383. 325
North Hartland, 1.1 miles north of station, 540 feet north of milepost "Windsor 11 miles," 15 feet east of track, in top of small bowlder; aluminum tablet stamped "349 ADJ"	•.
White River Junction, in Catholic Church, near corner of Gate street, southeast corner of front wall, 8 feet south of doorway; aluminum tablet	349. 603
stamped "367 ADJ". Hartford, 2.8 miles west of station, 0.1 mile east of house of Henry Shoch on his property, 120 feet east of road, 410 feet south of track, in top of	367. 527
small bowlder; aluminum tablet stamped "433 ADJ"	433. 967
stamped "420 ADJ". white river junction, north along central vermont railway, to norwich.	420. 485
White River Junction, opposite state treasury; top of hydrant	364. 86
Norwich, near corner of Mechanic and Main streets, in front wall of red brick house owned by Lewin, 10 feet west of doorway; aluminum tablet	430. 449
stamped "536 ADJ"	536. 289
WEST HARTFORD, SOUTH ALONG HIGHWAYS, VIA TAFTSVILLE, TO HARTLAND.	•
West Hartford, 3.7 miles south of, town of Hartland, in foundation wall of brick schoolhouse, south end of west face; aluminum tablet stamped "941 ADJ".	941. 951
West Hartford, 6.1 miles south of, in foundation of farm house, south end of east face; aluminum tablet stamped "631 ADJ".	631. 339
Taftsville, 9.2 miles south of West Hartford, in brickwork of residence of W. H. Taft, west end of south wall, 9 bricks above foundation wall;	
aluminum tablet stamped "668 ADJ"	669. 030 954. 993
Hartland Four Corners, 7.3 miles south of Taftsville, in brickwork of Universalist Church, east end of north face; aluminum tablet stamped	
"637 ADJ". Hartland station, 2.6 miles east of Hartland Four Corners, 250 feet west of track, in road fork near station, 15 feet north of road, in bowlder; alumi-	637. 497
num tablet stamped "441 ADJ"	441. 825

Whitefield quadrangle.

ESSEX COUNTY.

The elevation given below is based on a bronze tablet set in the west face of a stone foundation of McKean Block, Whitefield, facing the public square, and marked "W 952," which in turn is based on the top of rail in front of center of Boston and Maine Railroad station, Whitefield, 948 feet. Accordingly the height of the bronze tablet is accepted as 952.419 feet.

The leveling was done by Walter R. Harper in 1897.

AT LUNENBERG STATION.

Burlington, Brandon, Camels Hump, Middlebury, Milton, Potato Hill, and Ticonderoga quadrangles.

ADDISON, CRITTENDEN, AND RUTLAND COUNTIES.

The elevations in the following list are based on the 1903 adjusted elevations of bench marks at Ticonderoga and Rouse Point, N. Y., established by the Coast and Geodetic Survey in 1882 and recovered by leveling done under the Deep Waterways Board in 1898 and 1899. The bench mark at Ticonderoga is the bottom of a hole in chiseled circle at southeast corner of north stone abutment of Delaware and Hudson bridge No. 19 over Ticonderoga Creek, and its accepted elevation by the 1903 adjustment is 109.368 feet above mean sea level. The bench mark at Rouse Point is on the water table, north side of Chapman Block, 20.6 feet west of the northeast corner, and consists of a cross and circle, the elevation of which is now accepted as 107.95 feet above mean sea level.

A series of simultaneous gage comparisons was made for seventeen days—June 14-30, 1904—by A. D. Butterfield and H. K. Barrows, of the University of Vermont, between Fort Montgomery, N. Y., and Burlington, Vt., and the elevation thus obtained at Burlington was about 0.3 foot less than that brought from Ticonderoga through primary circuits. The elevations herein given for Burlington quadrangle are based directly on the gage determination, and the error is adjusted in leveling in Ticonderoga and Middlebury quadrangles.

The leveling was done as follows: In Brandon and Ticonderoga quadrangles by George Bailey in 1902; in Middlebury quadrangle by F. M. Goodhue and A. T. Paine in 1903; and in Burlington quadrangle by A. T. Paine in 1904.

53131°-Bull. 437-10-4

TICONDEROGA QUADRANGLE.

FORT TICONDEROGA, N. Y., EAST ALONG DELAWARE AND HUDSON RAILROAD, TO WHITING, VT.	
Huffs Crossing, 400 feet east of, iron bridge over creek; west end of north abutment	Feet. 217. 79
BRANDON QUADRANGLE.	
WHITING, SOUTH ALONG HIGHWAYS, TO SUDBURY (SINGLE SPUR LINE).	•
Sudbury, northwest corner of church at road corners, on outcrop of rock; bronze tablet stamped "572 ALBANY"	572. 289
WHITING, SOUTHEAST ALONG RAILROAD VIA LEICESTER JUNCTION, TO BRANDON; THENCE NORTHEAST ALONG HIGHWAY, TO FORESTDALE.	
Leicester Junction, at road crossing; top of rail	353 416. 438
BRANDON, SOUTHEAST ALONG RAILROAD 3.6 MILES (SINGLE SPUR LINE).	
Brandon, 3.36 miles south of, railroad bridge over Otter Creek, north abutment, 4.7 feet east of east rail, 1.3 feet below rail; mark	362. 04
FORESTDALE, NORTH ALONG HIGHWAYS, TO EAST MIDDLEBURY; THENCE WEST TO CORNWALL; THENCE SOUTH TO WHITING.	
Salisbury, 0.5 mile east of, south side of road corners, 2 feet above ground; bronze tablet stamped "548 ALBANY"	547. 685
cut	349. 54
Cornwall, in west wall of town hall, just south of door, 1 foot from ground; aluminum tablet stamped "374 ALBANY"	374. 231
FORESTDALE, NORTHEAST ALONG HIGHWAYS, TO GOSHEN (SINGLE SPUR LINE).	
Goshen, in south end of east wall of meeting house; bronze tablet stamped "1136 ALBANY"	
EAST MIDDLEBURY, ALONG HIGHWAYS, TO RIPTON.	
East Middlebury, 0.75 mile east of, at road corners. Ripton, north side of highway, bridge over creek, in west abutment; bronze tablet stamped "1017 ALBANY".	782. 51
	1, 010. 001
POTATO HILL QUADRANGLE.	i.
SOUTH LINCOLN TO LINCOLN.	
South Lincoln, 0.75 mile west of, in northwest angle at junction of the South Lincoln and the Lincoln-Ripton roads, in top of granite bowlder, 3.5 feet above ground; bronze tablet stamped "1249 MONTPELIER". Lincoln, opposite Lincoln Lumber Company's store, in east abutment of iron bridge, south side of roadway, on bridge seat, 15 feet below floor of bridge; aluminum tablet stamped "971 MONTPELIER"	1, 249. 300 971. 365
MIDDLEBURY QUADRANGLE.	0.2.000
MIDDLEBURY QUADRANGLE. RIPTON, NORTH ALONG HIGHWAYS TO SOUTH LINCOLN.	
Ripton, 3.5 miles north of, 75 feet east of bridge over brook, at road fork by Fisher district schoolhouse, in northwest angle at top of retaining wall; on large flat stone; point	1, 415. 31

LINCOLN, WEST ALONG HIGHWAY TO BRISTOL.

West Lincoln, at north end of iron bridge, east side of north abutment; point on bowlder	Feet. ·890. 19
CORNWALL, NORTH ALONG HIGHWAY AND RUTLAND RAILROAD VIA MIDDLEBURY TO NEW HAVEN; THENCE EAST TO BRISTOL.	
Middlebury, in marble underpinning of Battel Block, at middle of bay window at northeast corner of block, 18 inches from sidewalk; aluminum tablet stamped "366 MONTPELIER"	366. 080
crop	329. 71
of second course	299. 15
aluminum tablet stamped "454 MONTPELIER"	454. 021
MONTPELIER"	570. 422
NEW HAVEN, NORTH ALONG RUTLAND RAILROAD TO FERRISBURG; THENCE EAST ALONG HIGHWAY TO MONKTON; THENCE SOUTH TO BRISTOL.	
Ferrisburg, in foundation of red brick town hall, 10.9 feet from southwest corner of south side, 2.5 feet from ground, in small rectangular limestone; aluminum tablet stamped "217 MONTPELIER"	217. 268
Monkton, at four corners, opposite Ladd's Hotel, 500 feet from creamery, on northeast corner of road intersection, in large round rock with flat top; aluminum tablet stamped "533 MONTPELIER"	532. 775
BURLINGTON QUADRANGLE.	
MONKTON, NORTHWEST ALONG HIGHWAY TO NORTH FERRISBURG; THENCE NORTH ALONG HIGHWAY TO BURLINGTON.	
North Ferrisburg, 300 feet from post-office, in northwest corner of foundation of Joseph L. St. Peter's general store, in center of a rectangular sandstone; aluminum tablet stamped "168 MONTPELIER"	167. 739
south point of small triangle of roads, in small flat bowlder with round top; aluminum tablet stamped "253 MONTPELIER"	252. 53 2
from ground, 6 feet from northwest corner; aluminum tablet stamped "174 MONTPELIER".	173. 468
Queen City Park, 1.7 miles south of, at northeast angle of three corners, about 100 feet southwest of Spears farmhouse, in small bowlder with flat top; aluminum tablet stamped "171 MONTPELIER"	170. 443
25, 1904; surface of water	94. 39
rectangular granite capstone, 6 feet above ground; aluminum tablet stamped "208 MONTPELIER"	208. 012

MONKTON, NORTHEAST ALONG HIGHWAY TO SOUTH HINESBURG; THENCE NORTH VIA HINESBURG TO WILLISTON; THENCE SOUTHEAST TO RICHMOND.	•••
South Hinesburg, in front foundation of P. McDonough's barn, opposite cheese factory, 900 feet north of road to Monkton, 25 feet east of main road, 1 foot from ground; aluminum tablet stamped "433 MONT-PELIER"	Feet. 433. 248
Hinesburg, north side of town hall, at west edge of marble step, 1 foot above ground; aluminum tablet stamped "344 MONTPELIER"	343. 615
slaty bowlder; aluminum tablet stamped "725 MONTPELIER" Williston, in southeast corner of front foundation of Methodist Church, 2.5 feet from ground, in small rectangular brownstone; aluminum tablet stamped "501 MONTPELIER".	724. 494 500. 472
BURLINGTON, NORTHEAST ALONG CENTRAL VERMONT RAILWAY TO FORT ETHAN ALLEN; THENCE SOUTHEAST TO RICHMOND.	
Essex Junction, in foundation of red brick high school, near railroad station, on southeast corner of building, in small rectangular sandstone; aluminum tablet stamped "358 MONTPELIER". North Williston, 150 feet east of station, north of track, opposite red brick gristmill, in middle of bowlder, 1.5 feet above ground; aluminum tablet stamped "305 MONTPELIER".	357. 532 304. 996
CAMELS HUMP QUADRANGLE.	
AT RICHMOND.	
Richmond, about 600 feet south of station, south of railroad track, in north- east corner of foundation of Universalist Church, in small rectangular red sandstone, 15 feet above ground; aluminum tablet stamped "319 MONT-	
PELIER"	318. 550
MILTON QUADRANGLE.	
AT FORT ETHAN ALLEN.	
Fort Ethan Allen, 100 feet east of station, 10 feet from track, in rectangular sandstone, 2 feet above ground; aluminum tablet stamped "309 MONT-	. •
PELIER"	308.801

Bennington quadrangle.

BENNINGTON COUNTY.

The elevations in the following list, reprinted from Appendix to Eighteenth Annual Report, are based on a bronze tablet set in the water table at front door of the county court-house in Bennington, marked "U. S. Geological Survey; elevation 682 feet; B. M." elevation of this bench mark above mean sea level is based on the top of rail of the Rutland Railroad in front of the railroad station at South Shaftsbury, the height of which is accepted as 720 feet, as brought by careful spirit levels from the Delaware and Hudson Railroad at Lake Champlain and adjusted thence through from sea level. In accordance with this height, the elevation of the central datum, the bronze tablet in Bennington, is accepted as 681.611 feet.

The leveling was done by E. L. McNair and A. B. Pomme in 1896.

AT BENNINGTON.

Bennington, in water table at front door of county court-house; bronze tablet stamped "682"	Feet. 681. 611 752. 40
BENNINGTON, TO BENNINGTON MONUMENT.	
Bennington, near convent school, at foot of Monument Hill, on stone south of road, 25 feet east of culvert on west Main street; square chisel mark. Bennington monument, on northwest corner of doorsill; chisel mark Bennington monument, at left side of entrance doorway; bronze tablet stamped "873"	663. 41 869. 97 873. 181
BENNINGTON, VIA HEARTWELLVILLE, TO STAMFORD.	
John Wilson's house, south of road, beside board fence, at east end of bars opening into yard, on small bowlder; chiseled circle	884. 75
beneath board fence; chiseled circle	1, 217. 93
with chiseled circle	·
marked "USGS 2,215 Ft. B. M.". Woodford, 2 miles east of, 160 feet from small wooden bridge, 10 feet south of road, on top of large bowler nearly embedded in ground; chiseled	·
circle	·
near corner of barn; round chisel mark	2, 267. 71
feet east of summit of hill, on bowlder; chiseled circle	2, 446. 01
of road, in large bowlder; copper bolt stamped "USGS1,784 Ft. B. M.". Deerfield River, road fork, 850 feet south of bridge, on large bowlder;	1, 783. 822
chiseled circle	1, 831. 63
rock abutment; chiseled circle	1, 363. 13
nearly in line with telegraph poles, on top of large bowlder deeply embedded in ground; chiseled circle	1, 233. 10
Stamford, Methodist Episcopal parsonage, in doorstep of front porch; copper bolt stamped "USGS1,131 Ft. B. M."	
WOODFORD HOLLOW, TOWARD GLASTENBURY.	•
Camp Comfort, opposite, 100 feet east of sawmill, 100 feet north of road, on	
top of large bowlder; chiseled circle	
bowlder containing about 1 cubic yard, stamped "USGS1,672B.M."	1, 671. 761
BENNINGTON, VIA POWNAL CENTER, TO POWNAL.	
Bennington, 0.5 mile south of, east of road at culvert, close to two ash trees, 300 feet north of two dwellings, on large bowlder; square chisel mark Bennington, 4.5 miles south of, at Dave Towslee's house, under butternut	805. 03
tree in front of house, on bowlder; square chisel mark	950. 28

Bennington, 5 miles south of, at Pine Hill, intersection of road to east, just north of Pine Hill, in stone in northeast corner; square chisel mark Pownal Center church, 14.75 feet north of northwest corner, in line with	Feet. 968. 93
front, in rock; copper bolt stamped "USGS.986 Ft. B. M."	985. 676
Pownal, Main street crossing of Boston and Maine Railroad; top of north	
rail	548. 55
SOUTH SHAFTSBURY, TO BENNINGTON.	
South Shaftsbury, in foundation stone of west abutment, north wing of bridge over small brook; copper bolt stamped "USGS711 Ft. B. M."	710. 83
South Shaftsbury, 1 mile south of, on top of corner stone of stone fence in southeast corner of road east, opposite house with 6 black-ash trees in	
front; square chisel mark	788. 09
Bennington, 3 miles north of, 300 feet north of brick schoolhouse, at intersection of road east, on lowest stone in southeast fence corner; square	
chisel mark	788. 87
Bennington monument, 1 mile north of, bridge over Furnace Brook, on top	
of coping of north abutment; square chisel mark	585. 44

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